REPORT NUMBER 14

# WIND TUNNEL TEST REPORT CONVENTIONAL MODEL VOL. 1

AD 653566



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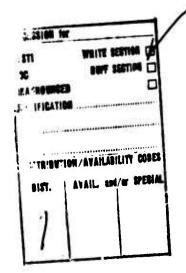
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REPORT NUMBER 141
WIND TUNNEL TEST REPORT
CONVENTIONAL MODEL

15/

VOLUME I

LOW SPEED FORCE & MOMENT DATA

XV-5A LIFT FAN

FLIGHT RESEARCH AIRCRAFT PROGRAM

JANUARY 1964

ADVANCED ENGINE AND TECHNOLOGY DEPARTMENT FLIGHT PROPULSION DIVISION GENERAL ELECTRIC COMPANY Cincinnati, Ohio 45215

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#### 1.0 INTRODUCTION

This report presents the results from the wind tunnel tests of a 1/8-scale conventional model of the U.S. Army XV-5A Lift Fan Flight Research Aircraft. The tests were performed to determine the subsonic aerodynamic characteristics of the XV-5A in its conventional flight configuration.

The test results are presented in three volumes. Volume I contains the tabulated force and moment data from the low speed (M=0.285) tests. Pressure and hinge moment data for the low speed tests is presented in Volume II. Volume III presents the results of the high speed (M=0.4 to 0.9) wind tunnel tests.

The 0.285 Mach wind tunnel tests were conducted in the eight foot by twelve foot test section of the General Dynamics/Convair low speed wind tunnel. Two series of tests were performed; the first from June 6 through 19, 1962, and the second during the period August 21 through 27 of the same year. The high speed tests were conducted at the David Taylor Model Basin (DTMB) seven by ten foot transonic wind tunnel facility during the period July 23 through August 1, 1962. The information presented in the three volumes of this report have been obtained largely by consolidating the data given in the test reports prepared by the test facility. This report is limited to a presentation of the data and information considered useful in interpretation of results. Discussions covering the use of data in predicting aircraft characteristics will be found in subsequent technical reports.

## 2.0 MODEL DESCRIPTION AND TEST PROCEDURES

## 2. 1 MODEL AND INSTALLATION

The XV-5A 1/8-scale model was designed for testing in both low speed and high speed wind tunnel facilities. The basic model consisted of a wing of aluminum construction, which was equipped with flaps, ailerons, removable plates for wing fan covers and exit louver simulation; removable wing fan strut fairings. The fuselage was constructed of aluminum, mahogany, and Fiberglas with simulation of intermed gas generator inlet and exhaust ducting. The empennage was removable with the rudder and elevators. The model was installed on the Convair tandem strut support system. An external balance was used for measurement of forces and moments. The model was designed for testing upright, but was inverted for determination of aerodynamic tares. Provisions were made to permit testing of wing and fuselage alone.

Four internal strain gauge beam balances were used to measure hinge moments acting as the rudder, left elevator surface, left flap, and left aileron. Flexible seals contained within the aileron balance cavity and extending from the wing structure to the leading edge of the aileron were used to simulate similar seals in the aircraft. The seal installation permitted the measurement of upper and lower balance chamber pressures on the right aileron simultaneously. A fixed wiper-type seal attached to the stabilizer structure served the same purpose for measurement of the right-hand elevator balance chamber pressures. The ruddenamber was also pressure instrumented. Pressures were measured using five internally mounted, 48 port Scanivalves. To simulate the effect of various engine inlet mass flows, the model was provided with throttling plates which were inserted immediately downstream of the duct inlets. These throttling plates were used in conjunction with a duct pressure survey rake for inlet flow drag measurement.

Additional design features included removable horizontal tail and wing leading edges and outboard panels. The removable wing sections simplified the testing of variations in the configuration of the basic model during the second phase of low speed tests.

Additional model parts were fabricated for the second series of tests. These new model parts included two sets of wing outboard panels, flap chordwise and spanwise extensions, wing fences and vortex generators, horizontal tail spanwise extensions, and a horizontal tail made in two parts so that it could be mounted in any position on the vertical tail.

The two additional wing outboard panel configurations provided 0° and 4° positive dihedral, in addition to the 6° tips-down configuration of the initial test. The new sets of wing outboard panels, made of mahogany, were constructed without deflectable ailerons; one set (0° dihedral) was cut out to accommodate the spanwise extended flaps. The spanwise flap extension was simply an added piece of the same cross-section attached to the existing flap. The chordwise flap extensions were sheet metal, attached and faired to the existing flaps. The vortex generators were shop fabricated in strips and taped to the model.

Following the first series of tests, but prior to conducting the high speed test program and the second phase of low speed tests, minor modifications were made to the model. These changes included:

- Rework of the external contours of the wing fan cover plates to represent the redesigned covers of the aircraft. These changes necessitated some rework of the wing fan strut fairings.
- 2) Modification of the ailerons to eliminate the horn balance. This resulted in an aileron of reduced span. Minor modifications were also made in the installation of the aileron seals at this time. (All 2nd series tests were performed with ailerons undeflected.)

Model geometrical data is given in Section 4.3 of the Appendix. A drawing showing the general arrangement of the model is presented in Figure 4.1 and model dimensional data is given in Table 4.1. Additional detail information on model configuration and nomenclature is also given in the Appendix.

## 2.2 TEST PROCEDURES

Information on the configurations tested and the types of data recorded during the test are given in the run indexes for the first and second series test programs. While external belance force and moment data, pressure data, control surface hinge moment data, and tuft data were recorded, not all types of data were recorded for each run. Only force and moment data were recorded during the second series of tests.

All runs were made at a dynamic pressure of 120.0 pounds per square foot, for which the corresponding Reynolds Number was 2.21 million, based on the model wing mean aerodynamic chord of 14.115 inches and assumed average operating conditions of 90° F temperature and 29.92" hg barometric pressure.

With the exception of the horizontal tail configuration, ( $H_2$  used for tail position investigations during the second series of tests), carborundum grit was installed on all model parts in the pattern  $T_1$ , with the exception of first series runs 31 through 37, during which a grit study was made. Grit size #150 was used during all other tests.

During all tests, the model was considered to be in good condition. All joints and screw holes were filled with wax or covered with cellophane tape. With the exceptions of the transition grit, and tufts as noted on the Run Index, the model was in a smooth condition.

In general, external control surface gaps were left unsealed because a seal would have interfered with pressure and hinge moment measurements. Notes on the Run Index indicate the special occasions when external seals were applied.

The horizontal tail (designed for variable incidence) was mounted atop the vertical tail with the incidence pivot point below the horizontal tail surface. The horizontal tail was mounted from a vertical plate which inserted into the vertical tail in such a way that a portion of the vertical mounting plate was left exposed. During some parts of the test this mounting plate was faired with wax to match the airfoil section of the vertical tail; this fairing was treated as a vertical tail modification,  $V_1$ , although it existed only in the presence of the horizontal tail.

One series of runs in the latter test was made experimenting with the flap gap, gradually reducing the gap by applying added layers of tape to the flap leading edge. In each instance the final layer was cellophane tape to minimize the friction due to the tape texture.

Pressures were read directly through five 48-port Scanivalves with pressure transducers installed inside the model. Digitized output from the five transducers was simultaneously printed and punched into IBM data cards. Trial determined that the recording of other data simultaneously with pressure data was inadvisable, because the long running time required to scan 48 Scanivalve ports at each model test point made it difficult to obtain a zero return or the external balance. The

hinge moments also were digitized directly, and readings from all 4 instrumented control surfaces were simultaneously printed and punched into IBM data cards.

O

The model was mounted on the two-strut support system with the balance measuring center at the intersection of Water Line 12.500 and Fuselage Station 32.500 with the model plane of symmetry. The image support system was used to determine aerodynamic tares for the fuselage alone and for the wing-fuselage combination, empennage off; an image sting, necessary to determine pitch aerodynamic tares for the wing-alone, was also used to determine the effects of the sting in yaw.

## 3.0 RESULTS

Test results are presented in this report for the two series of low speed wind tunnel tests of the XV-5A 1/8-scale conventional model. Force and moment data are found in this report, and the data have been segregated for presentation according to test phase. Pressure and hinge moment data are given in Volume II under separate cover, and as no data of this type were obtained during the second series of tests, the data in Volume II covers only one test phase. Tuft photographs are not presented in this report. Negatives are on file at the low speed wind tunnel facility.

With the exception of image system runs, the force and moment data from all good runs are presented in this report. External balance coefficients are referred to stability axes, and are presented as both plots and tabulations. Duct internal flow data are presented as tabulated pressures in pounds per square inch. Wing pressures are presented as plotted coefficients, and tabulated coefficients. Fuselage pressures and control surface cavity pressures are presented as tabulated coefficients. Control surface hinge moments are presented as plots and in tabulation.

All external balance data were reduced to the same model moment reference center at Station 30.75 and Waterline 14.00 as shown in the diagram of Figure 4.15 in the Appendix. All force coefficients were reduced on the basis of wing area. Pitching moment coefficients were reduced on the basis of wing area and mean aerodynamic chord. Rolling moment and yawing moment coefficients were based on wing area and wing span.

All external balance coefficients were corrected for the effects of flow inclination and model support system; aerodynamic tares were determined for body alone, wing alone (flaps  $0^{\circ}$ ) and for the wing-body combination with flaps  $0^{\circ}$ ,  $30^{\circ}$ , and  $45^{\circ}$ ; tares were interpolated for flaps  $15^{\circ}$  and  $40^{\circ}$ . Coefficients were also corrected for wall effects based on the theory for unswept wings; the differences between wall corrections for an unswept wing and a wing of this sweep and taper ratio are known to be negligible. Although duct internal flow measurements were recorded, no internal drag correction has been applied to any of the data contained in this report.

Force and moment data are presented chronologically according to test phase. In each case, the plotted data is preceded by the Run Index applicable to that test phase and is followed by the tabulated results derived during the test. Force and moment coefficients derived during the first test phase are shown in plotted form in Figures 3.1 through 3.32. Similar data for the second phase of tests are presented in Figures 3.32 through 3.55. Refer to the List of Figures to identify the plot of interest. The Run Indexes are shown in Tables 3.1 and 3.3. Tabulated force data for the two test phases are given in Tables 3.2 and 3.4.

Model configuration geometry, detailed description of components and definition of symbols and nomenclature are given in the Appendix. Configuration geometry is shown by sketch and photograph.

Exercise caution in comparing the force and moment coefficients of the first and second test series. At the end of the second low speed wind tunnel test on this model, a difference in lift level for a particular angle of attack was observed between the two tests not attributable to dynamic pressure. Power off data from tests of the XV-5A 1/6-scale lift-fan powered model, and data from high speed tests of the conventional model substantiate the results obtained in the second test and indicate that a correction of approximately two degrees positive should be applied to the recorded angle of attack for the earlier test. However, considerable care was exercised in all tests to assure an accurate calibration of angle of attack. Therefore, no definite cause for the discrepancy has been determined.

For a more detailed discussion of model hinge moment and pressure measurements, and the data derived therefrom, refer to Volume II,

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	FIGURE NO.	Pecss. Dare Oner	•	•	3.3	5.5	3.3 3.12	3.12	3.21	3.21	3.21	3.5	5.5.	2.0	3.22	3.22	3.22	44.0	•	5 KV		9	
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	CONFIGURATION	BoW. F.a. + R.	" + R. P.	,, +	" + P3	, + P,	B.W.F.a.	BoWo Folls		y	•	Bolvo 5 5, Co	η°ς.	B.W. F. 50 a.				WS 45, 46 \$ 41 : FLAPS AND : FLAPS WERE SEALED					
	RUN	42	43	44	45*	46*	41*	48	44	20	15	52	53	54	55	%	57	S * ELINES					
	DATE 1962	11-9					·		6/12							H	O.	REMARKS *					

	FIGURE NO.	3.13	3.13	3.13	3.13	3.13	3.13	3.32	3.32	3.7, 3.13	3.32	3.32	Ver Kernin	3.7	Ner P. SSEUTED	3.32	3.32	
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	TEST	P.+ 44	·		R	υ,	-		5	3		:	1	1)	ε	4		tum to
	CONFIGURATION	B. WoF. 5" V. a.		4		-	3		,		3				2			W 83: ZERO SWIFTS IN L, W 84: ZERO SHIFT IN J.
	RUN	72	73	74	32	2%	77	76	79	80	. 18	82	83*	83-1	*18	64.1	65	S S
	DATE 1962	6-13					52			·		₩.		.1				REMARKS

								4/8				
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	96	BoWoFoSoVMMONODO	in	2	-4 70	0	50	0	ı	0		3.5
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41-9	42%	B.W.F.S.V. H. a.	Right	:	-670	0	0	0	0	0	Ser Ms'a	the transition
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	93	Bow, E.S. W. H. a.	"	:	-4 -0	u	:	"	÷	;		3.1,3.83.14
	94*	11	V. in	•	0	cr c/-		**		:		Ker Feer wed
	94.1	11	. •	ţ	"		i			:	81.8 C. C.	3. 29 3.27
	95	H.a.	RHM		-4 -9.	0	4	*	, .	:		3.15
	96	$H_{o}^{s}a$	2	•	•	t	4	11	i	1.0		3.10
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	98	H.a.		ε	7		0	0	25	0		3.16
REMARKS RUM BG :	(S RU	W BG : ZENO SHIFT IN M.										

	FIGURE NO.	3.16	3.16	3.16	3.16	3.18	8.6	A. S.	3.18320	3.3/	3.29	3.27	3.27	3.29	3.2%	3.24	3.20	
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	CONFIGURATION	B.W. E. S. V. H. a.				BoWF. S. V. H.a.	ų	•	•			4	•			B. W. F. S. 16 H. a.	BW. F. S. V. H. L. + P.	
	RUN	66	8	10	102	103	104	18	901	101	108	109	110	111	112	113	114	ý.
	PATE	6-14																REMARKS

	FIGURE NO.	3.20	3.20	3.20	3.43.12	010	3.14	W.E.	71.6	3.14		47.5	3.14	3.14	Nor Picame	3.14	Norkeenze	
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	NOI	a, +P.	77	* +	٤,						•	·						VEDTICAL WORLS TAIL
	CONFIGURATION	6-14 115 BNOF.501/4, 4.P.	:		118 BW, ES," V, H.a.			3.	2	•	•	-		4		•	•	DEMADY'S DATE HIS MAKED WED
	S S S	11/5	9//	11.1	118*	6:1	120	12.1	122	123	124	124.1	521	126	12.7	127.1	128	1110
	DATE 1962	6-14																PEMARK

( )

THE SMOOTH SEALED MILEROLL SURFACE GAP. MADE MODEL AS SMOOTH AS POSSIBLE FOR MILLIMUM DEAG UPPER

124: ZERO SHIFT IN HT BE-BUN

121: BEED. RETURN TAKEN AT WRONG ANGE. RE-RUN.

128: 840 LIFT COUNTER. RE-RUN

P. + 1/183 - 8-72	CONFIGURATION
Ry470 " 45 20 " " 45 20 " " 45 20 " " 45 20 " " 45 20 " " 45 20 " " 45 20 " " 45 20 " " 45 20 " " 45 20 " " 45 20 " " 45 20 " " 45 20 " " 45 20 " " 45 20 " " 45 20 " " 45 20 " " 45 20 " " 45 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	128.1 BING FOSUV, Hia, + TUETS
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PICTURE SNOWS LOCATION OF TUETS.  RUN 139: UNDERSIDE OF FLAP GAP TAPED  14  RUNS 139 - 146 INCLUSIVE.	\$66 UOTE
HATE RULY 139 - 146 INCLUSIVE.	128.1: OESEEVED TUFTS. MO
	EERO SHIFT IN LE
	2 6 20

	FIGURE NO.	Page Were	•	:	. 4	3	:		•	•	•	ţ		٠	•	•						-	
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	CONFIGURATION	B.W. F. S. Y.H.a.)	•	•	" SEE NOTE		3	,	BoWoto 5" ", Ho'a,	•		4	,,			•	# 1 m	139-146 INCLUSIVE - UNDE					
	RUN	148 8	141	14%	/43	144	145	14,64	141 8	148	139	150	151	152	153	154	551	REMARKS RULLS					
	DATE 1962	9-15.				,												REMARK		,	3 ,		

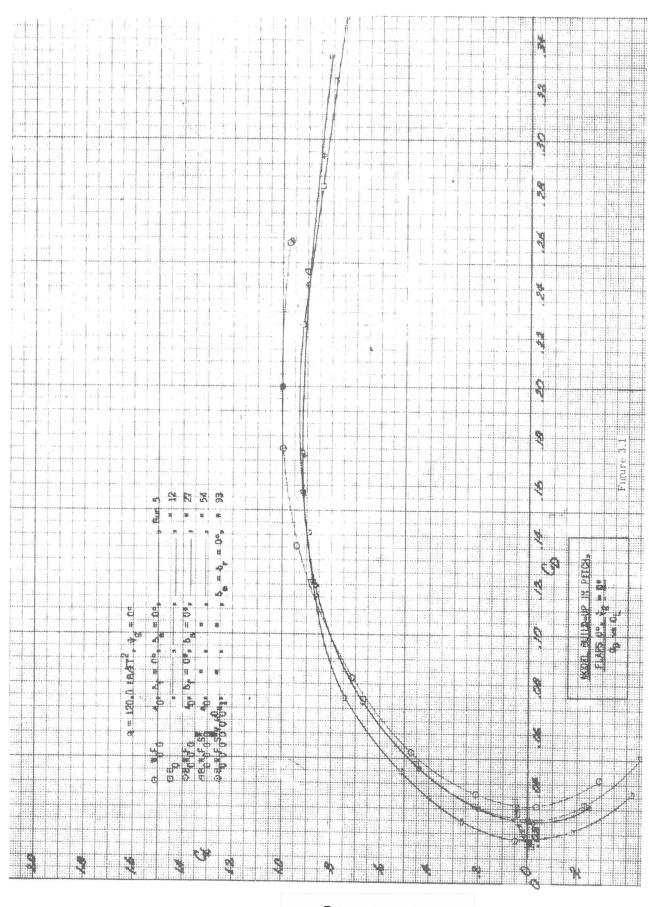
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	TEST	Y. N. E.S.	•		1/2 th	PRESS	•	:	3		:	,	1	:	Y+	R. HM	16 MM
	CONFIGURATION	BOIVEF SULH'a,	•	158 BOW, F, 5"V, H, a,	=	n		162 BoWoFo501/44.5a,	163 B.W. F. S. W.H. a,	164 BOW F. S. V. H.a.		-		-	11	Bowlo F. 50 1/4. W.	*
	252	155	157	158	159	160	161	162	163	164	165	1/66	167	168	691	170	1,1,1
	DATE 1962	15/ 51-9	91-9													011 61-9	

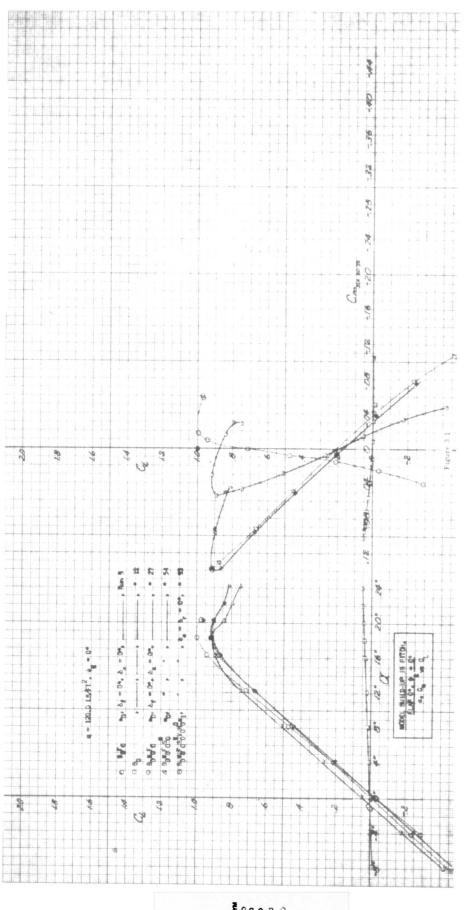
BE REFAIRED FOR REMAINUER OF TEST. CHAUGED. 162 : OMITTED WAX FAIRING ON VERTICAL TAIL WHEU HORIZ. INCIDENCE REMARKS QUE 159: REPEAT OF KUN 94:1 EXCEPT WITH WAX FARING OU VERT. TAIL (V.). 160 : SCAUIYALVE F. 2 WELLT OUT : WILL HOT

M & R ; RE-RUN 171 : ZEKO SHIFT MI.I: ZEKO SUIFT

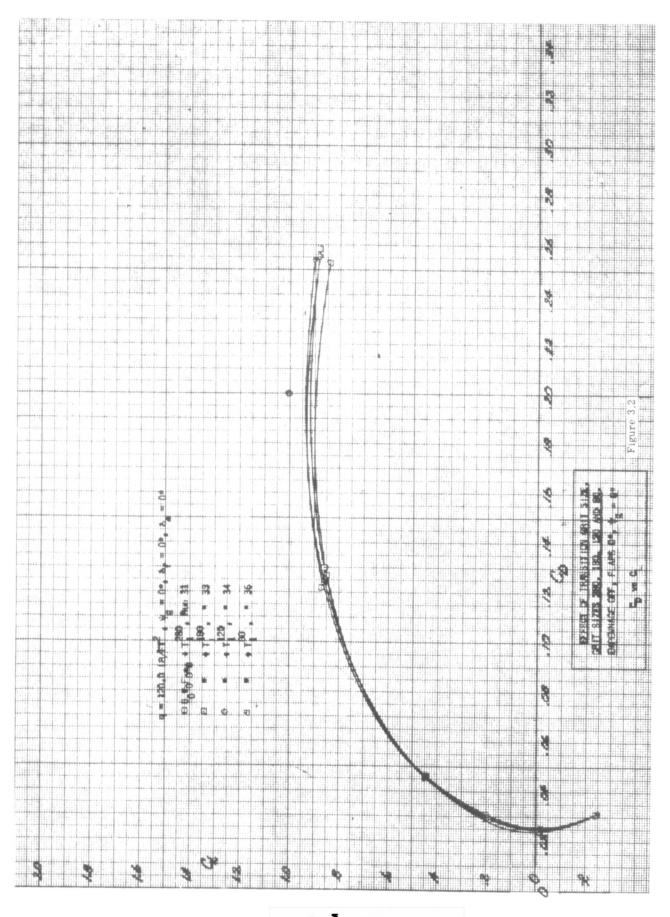
	FIGURE NO.	3.31	3.3/	3.3/	3.31	3.3/		3.3/	3.31	3.31	3.3/	3.3/	3.31	3.31	Ner Persona	3.26	3.2.		@ 4 = -8.	ERENCE.			٠
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	N															SEE NOTE	7	ET IN D	246	Koms 63 m	•		
	CONFIGURATION	B. W. F. 5" V. H. C.		. ·	•		4	-	1		ξ	:	¢	•	Z.		BOW, F. 5" V, H. a.	1 176: EERO SHIFT	183.1: THIS RC				
	RUN	14.1	172	173	174	175	176*	116.1	177	1.18	179	180	181	182	183	1.831	184	S RUN					. •
	DATE	61-9						·										REMARKS					

	FIGURE NO.	3.2	3.3	£.5.	3.26				7								
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	CONFIGURATION	800,0 Fo 5"V, H. a.		=	" + 72	FIULS											
	RUN		18%	187	1.38				9			I					
	DATE 1962	581 61-9							±.			,					REMARKS





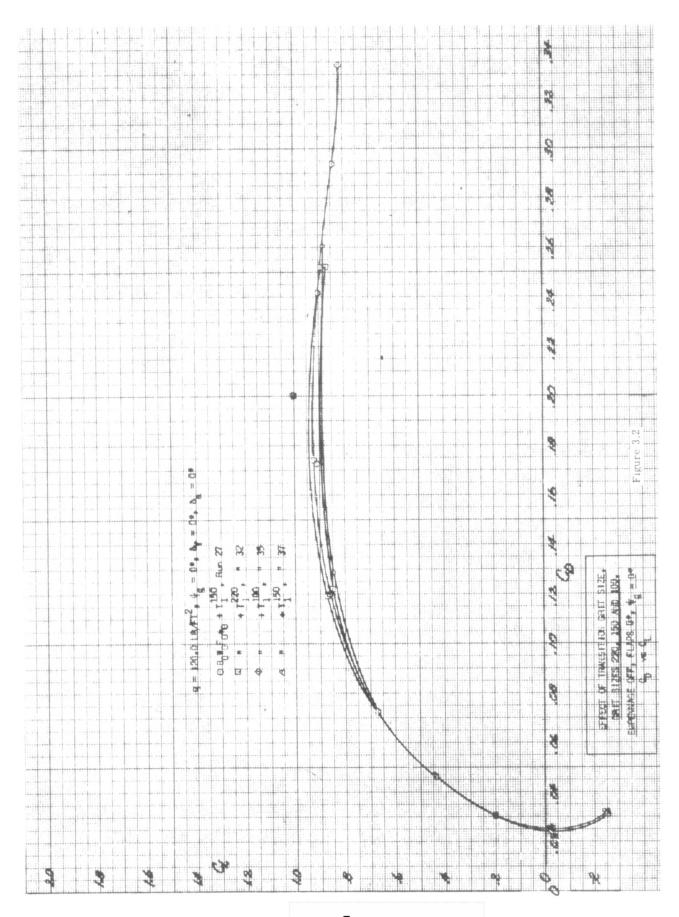
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RUN SYM 31 0 33 0 34 0

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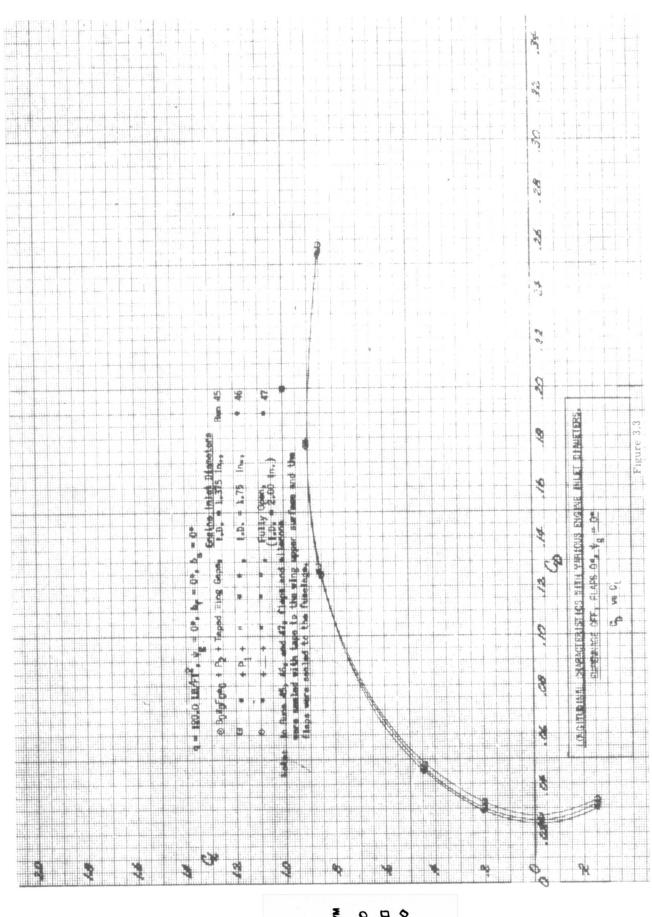
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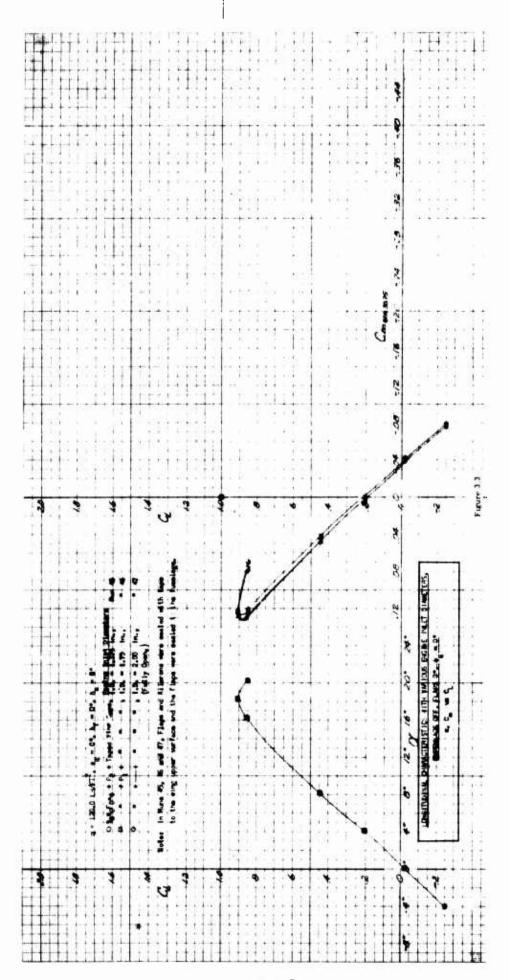


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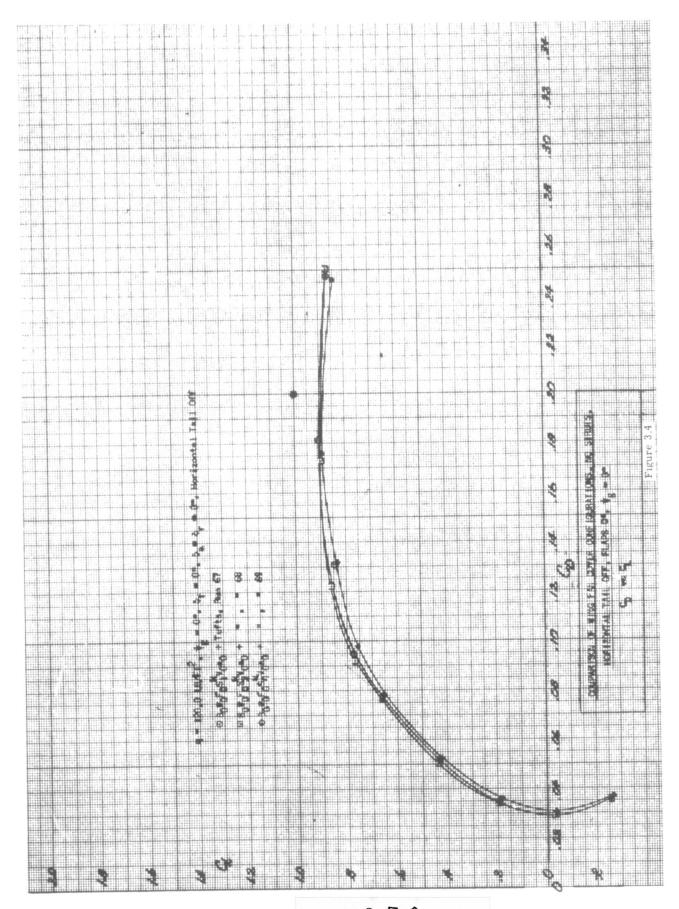
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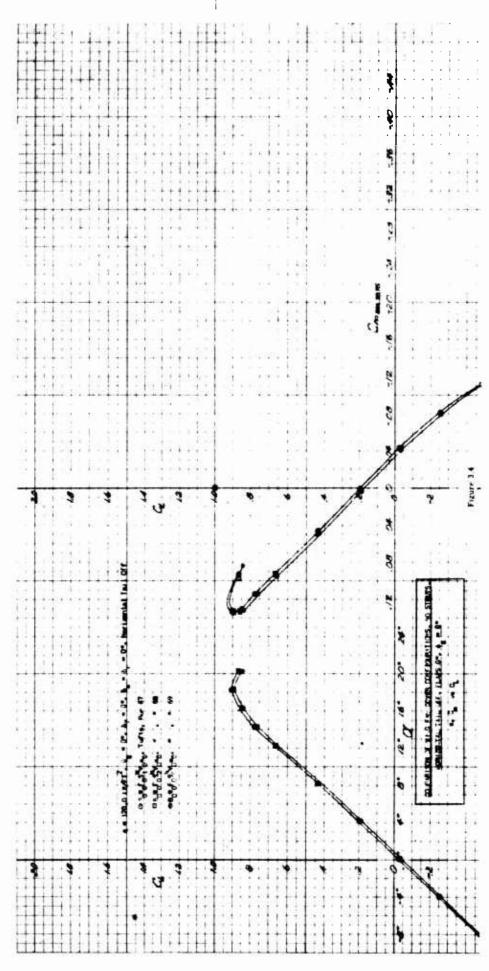




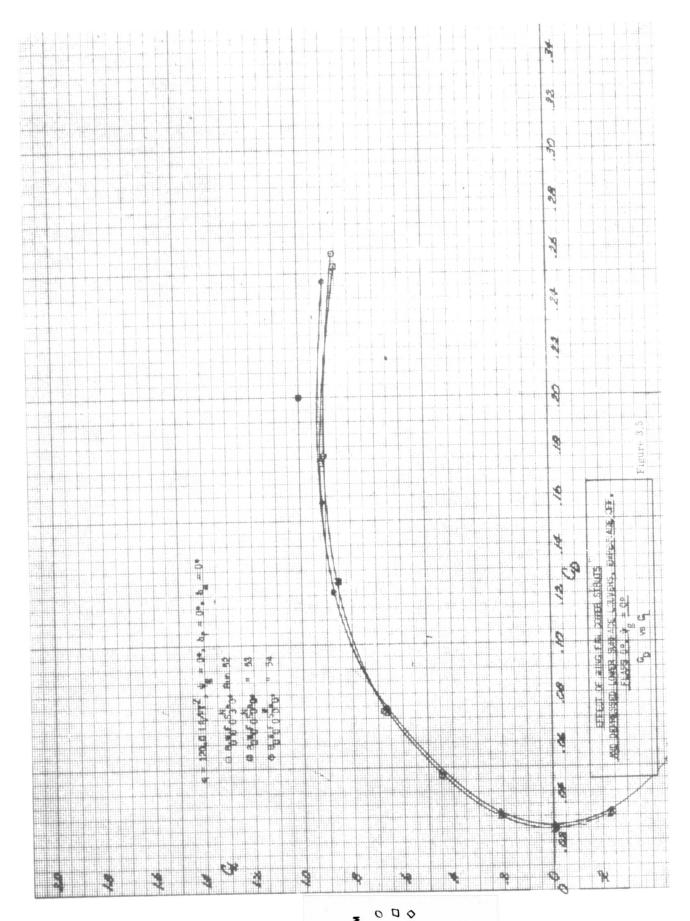
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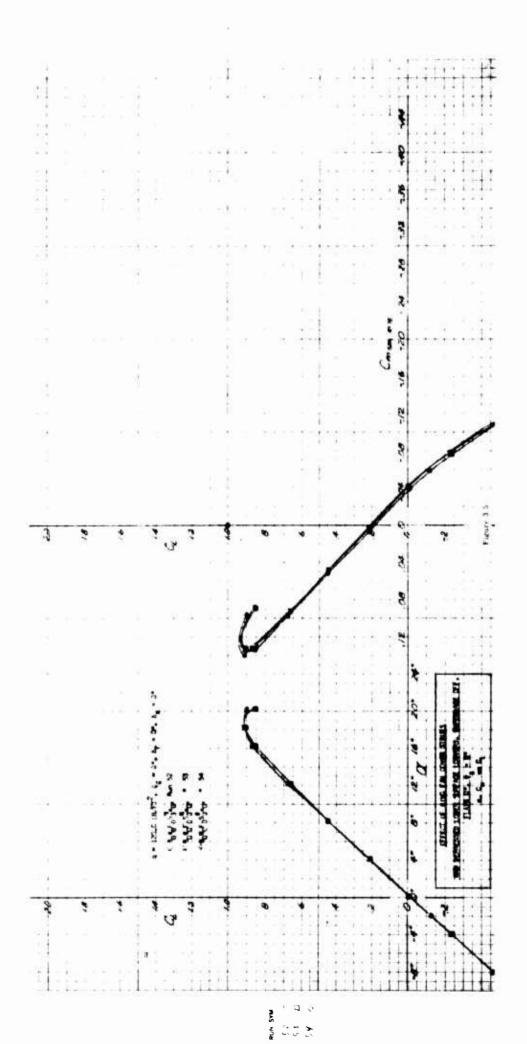
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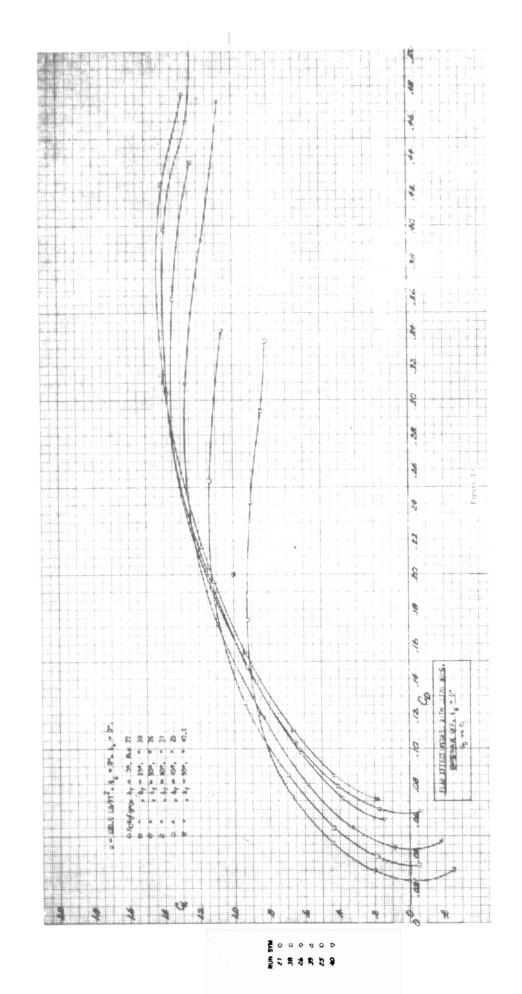


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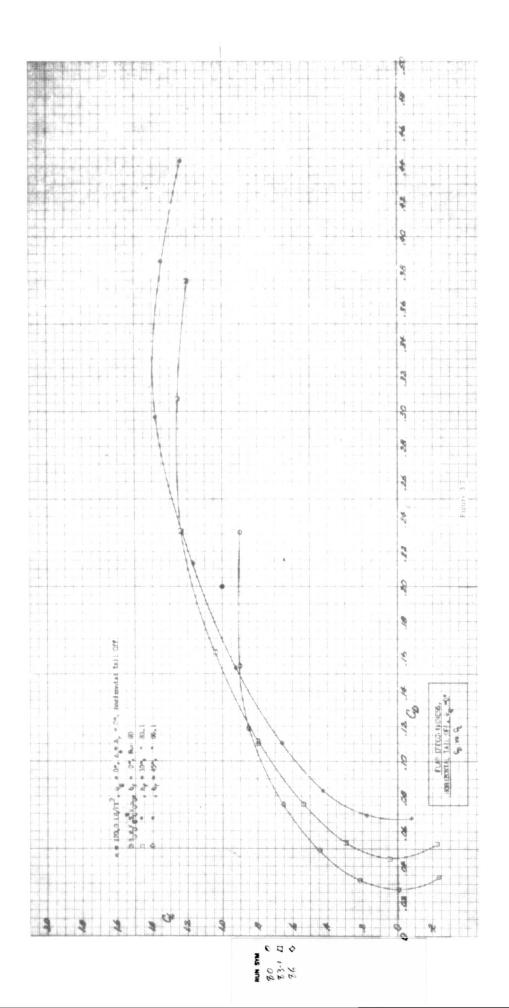




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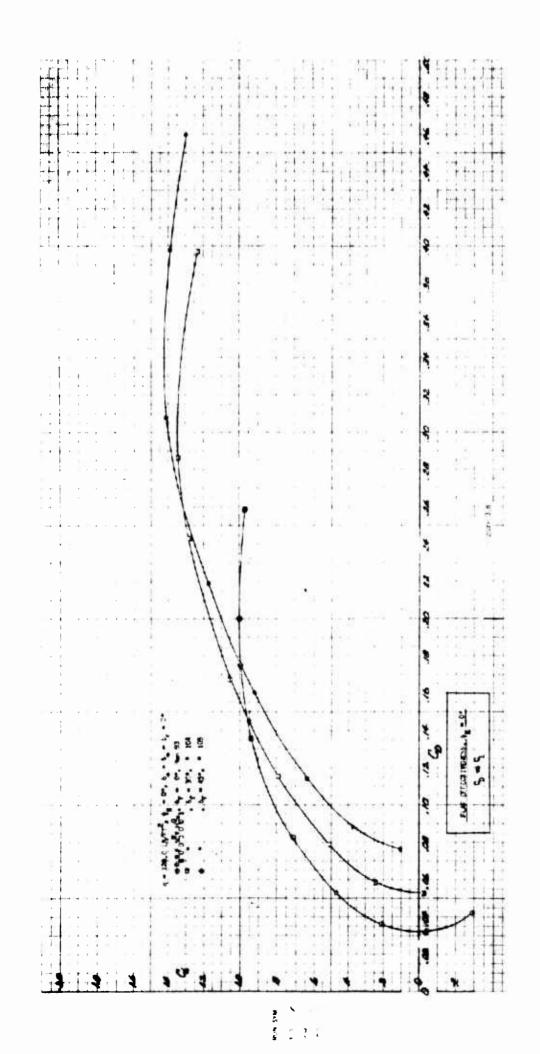
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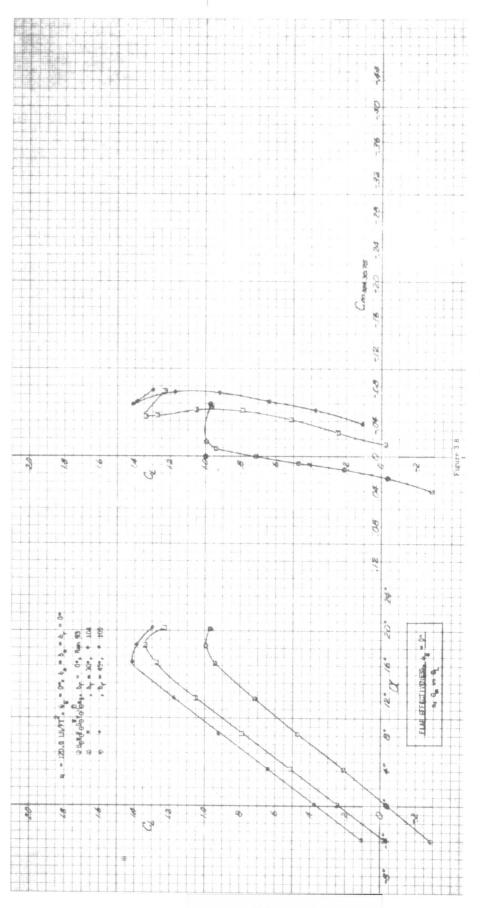
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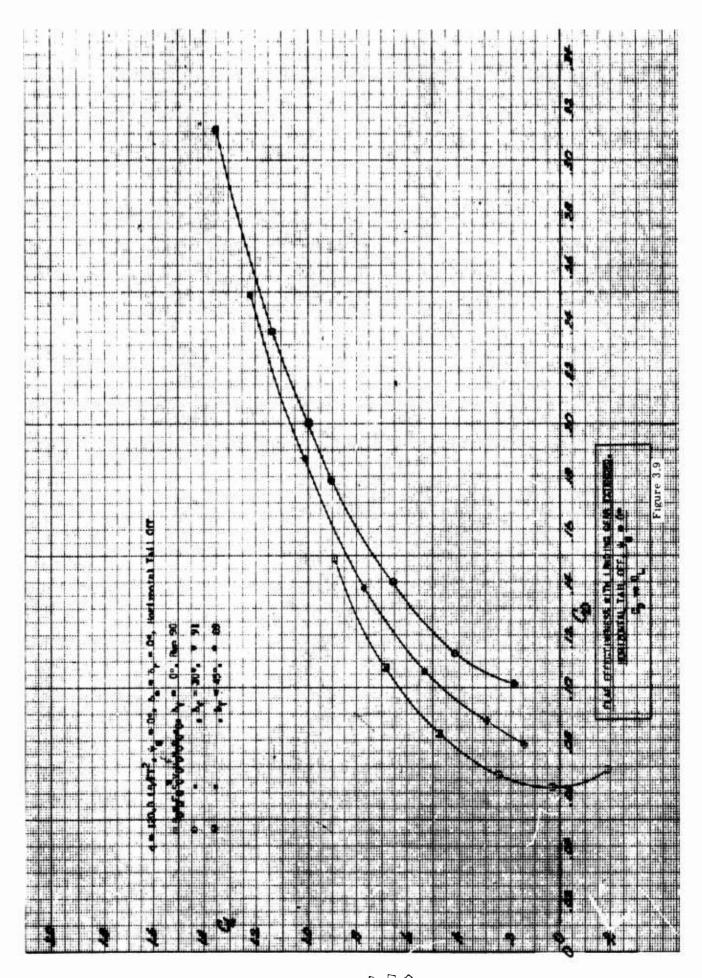
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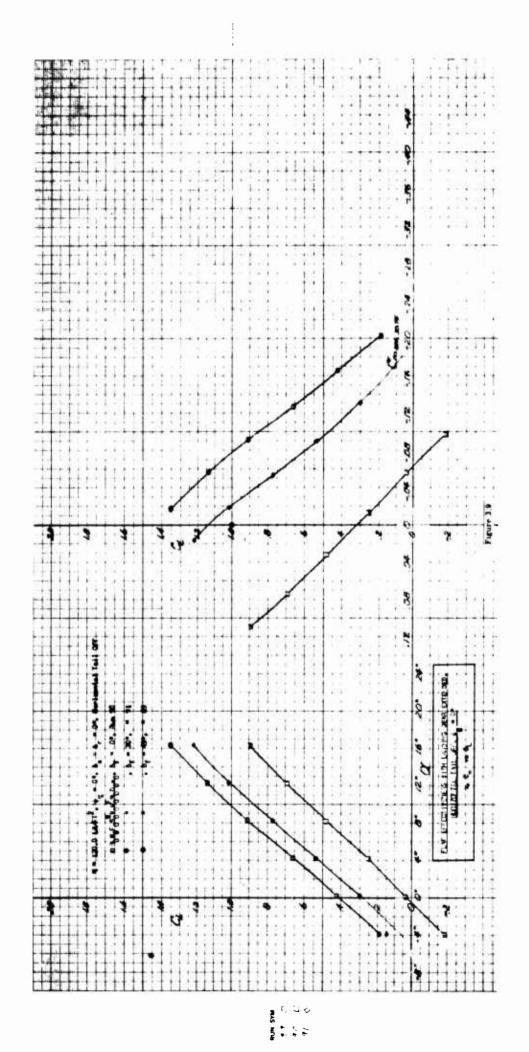
PUN STE

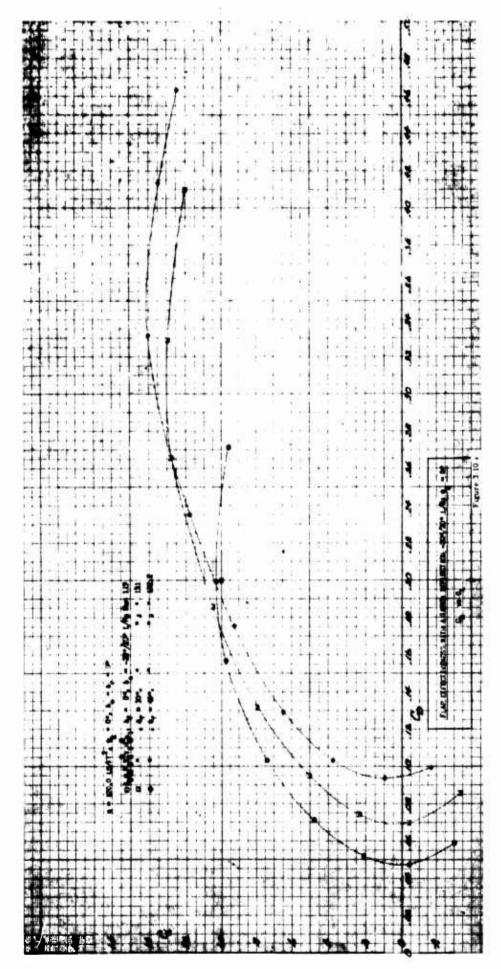




RUN SYM 13 0 174 ⊞ 105 ♦







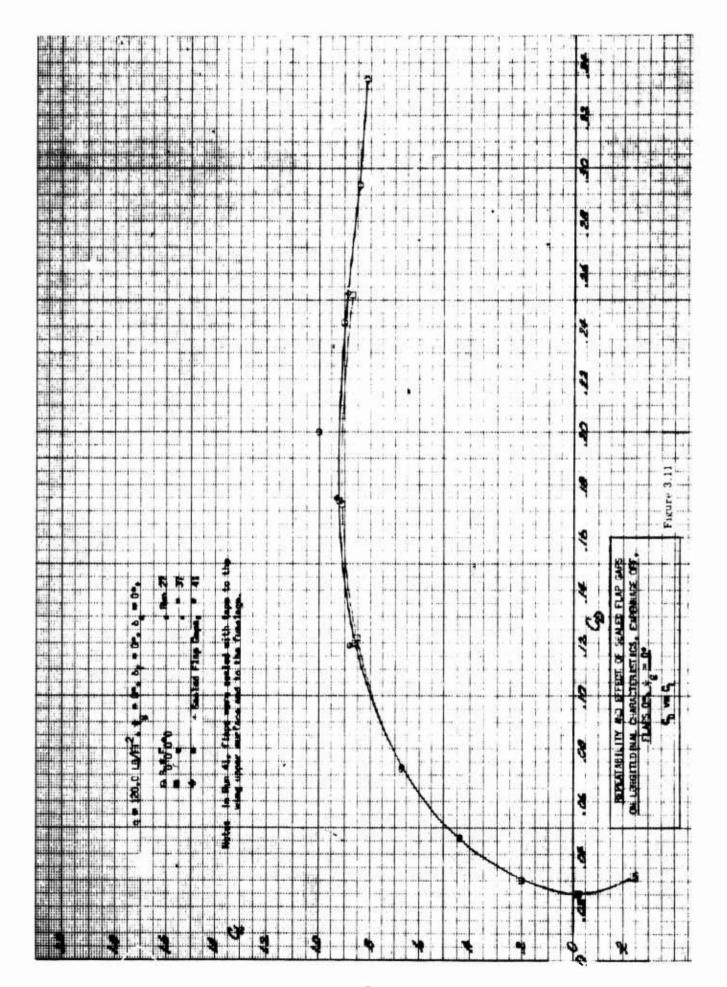
PUN SYM 114 0 2 15 137 0

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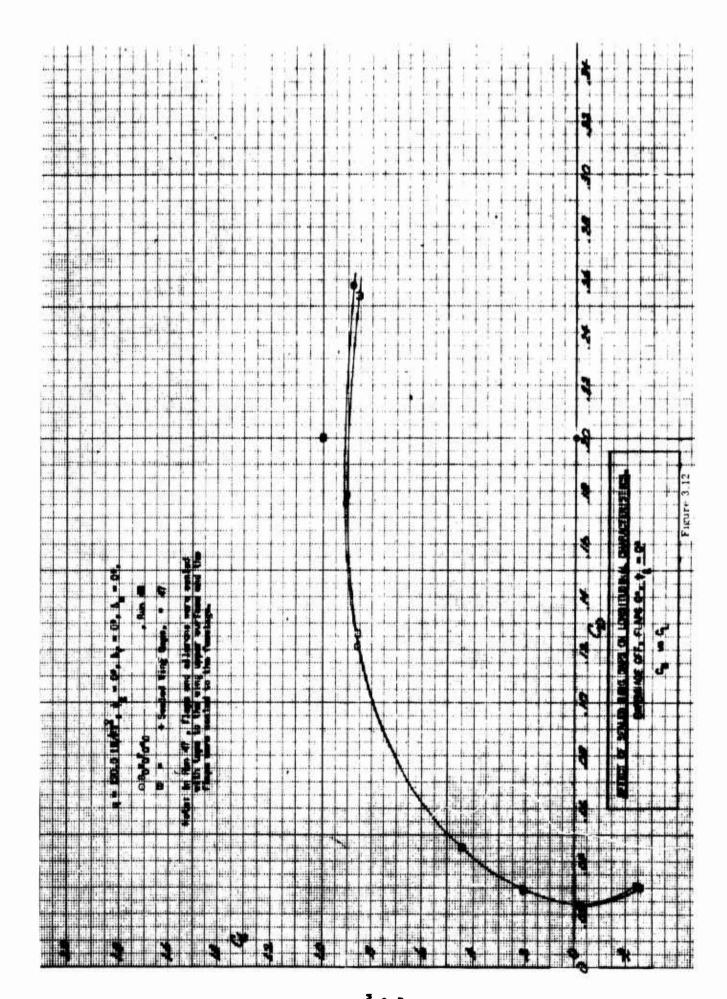


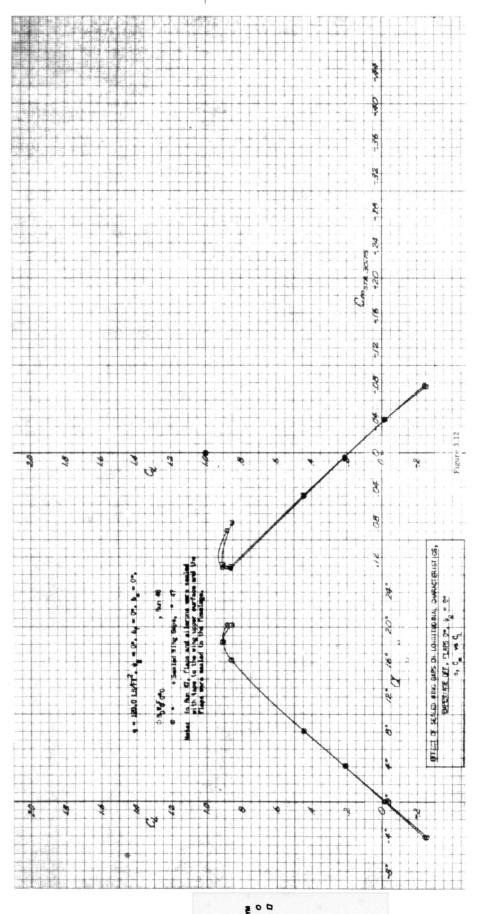
RUN SYM £7 0 37 0 41 0

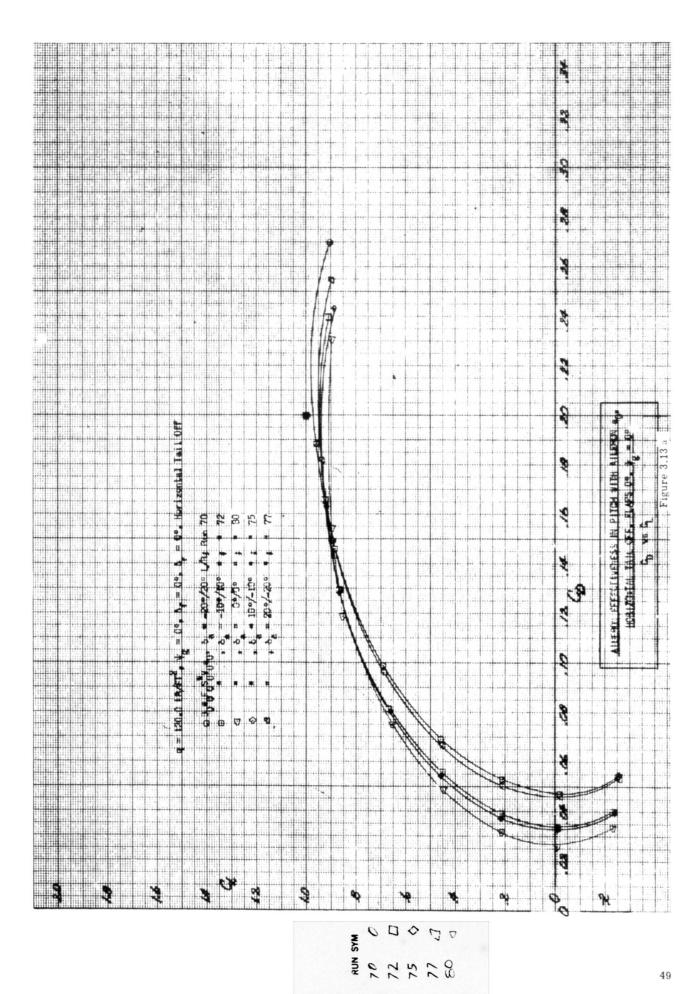
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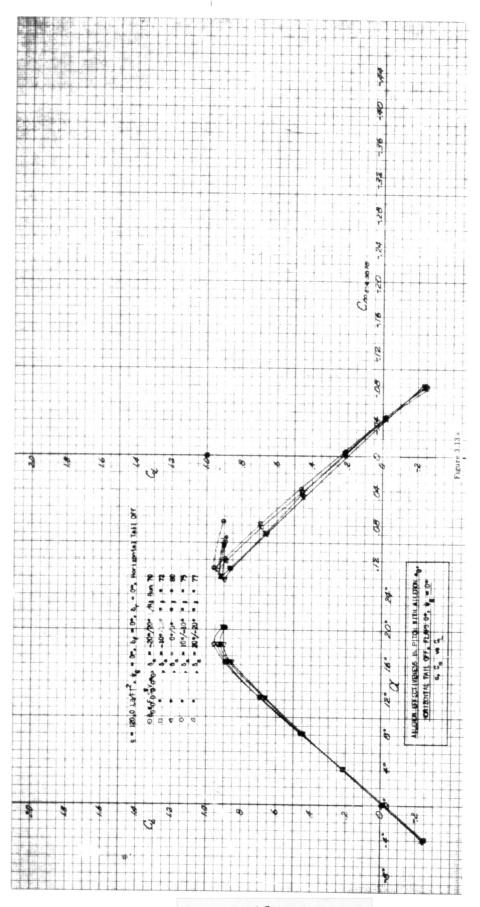
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PUN SYE 7: 0 17: 0 4: 0

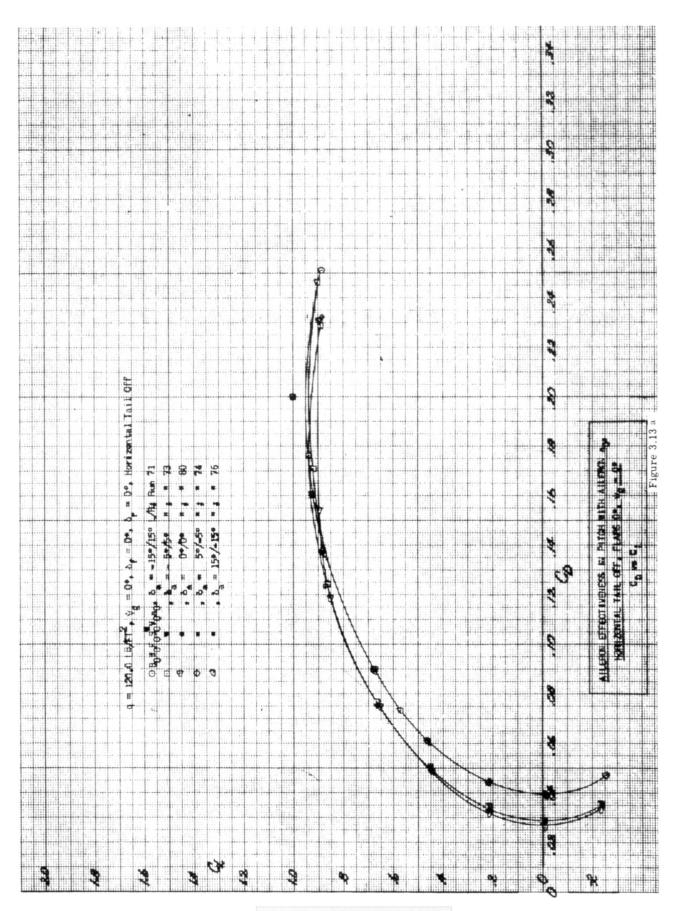




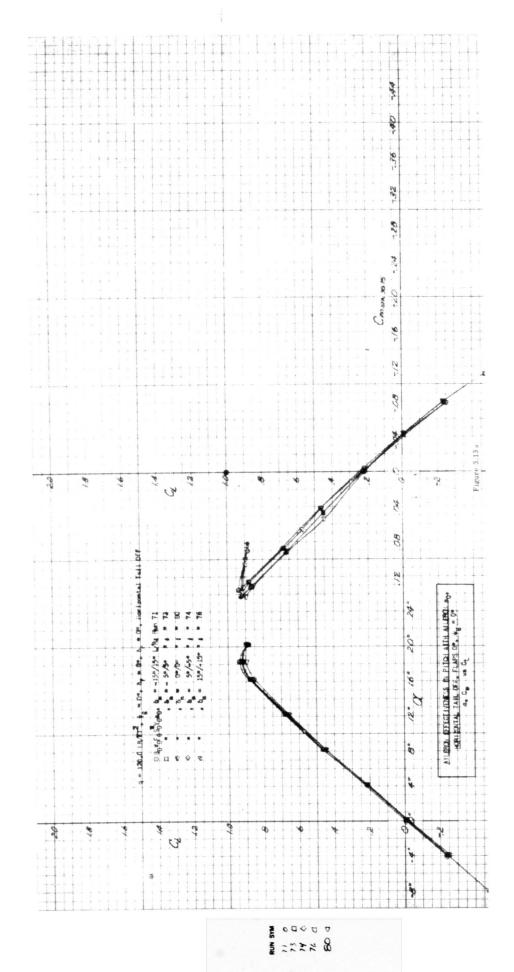


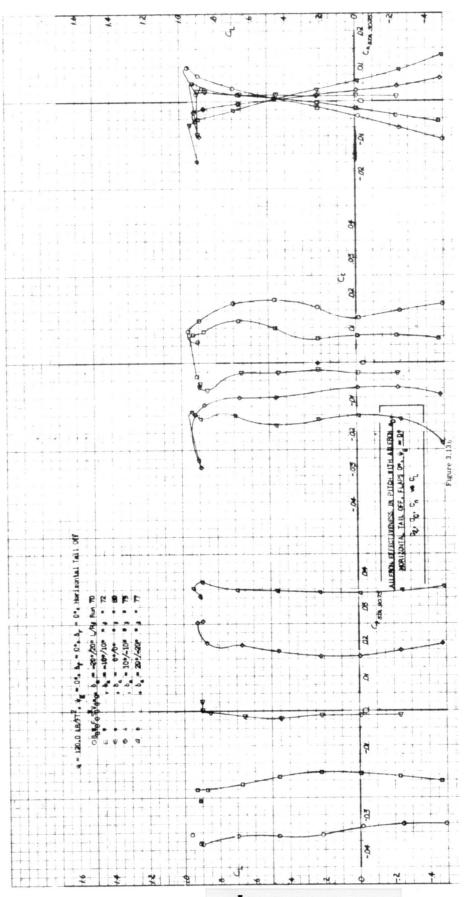


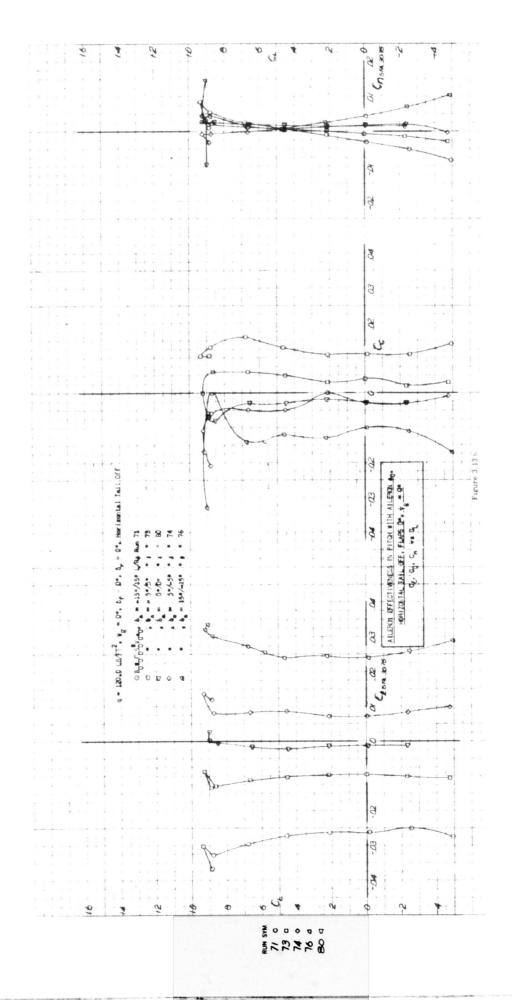
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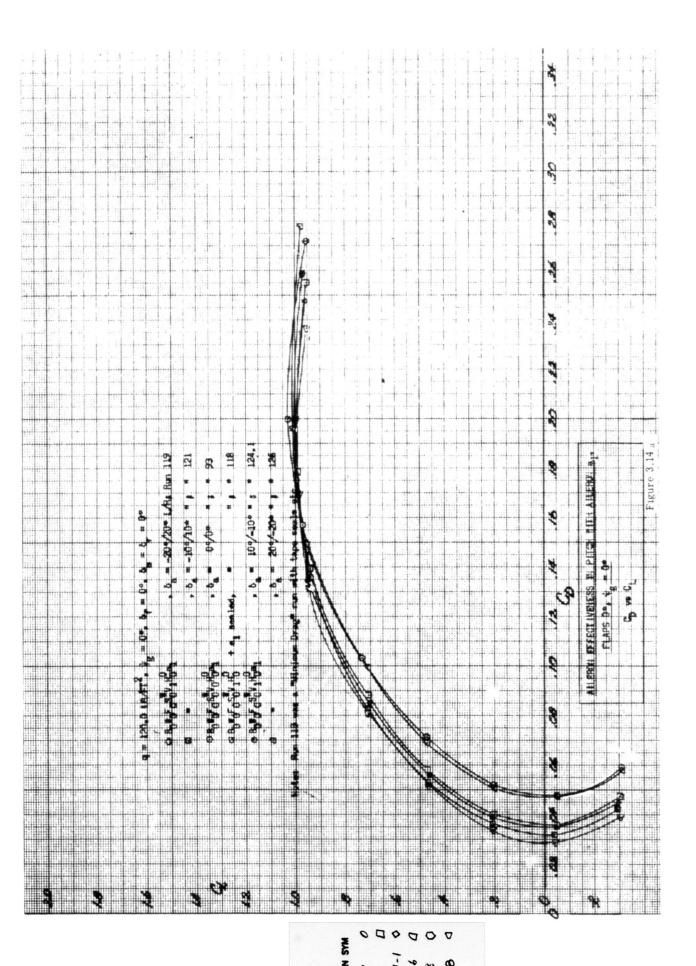


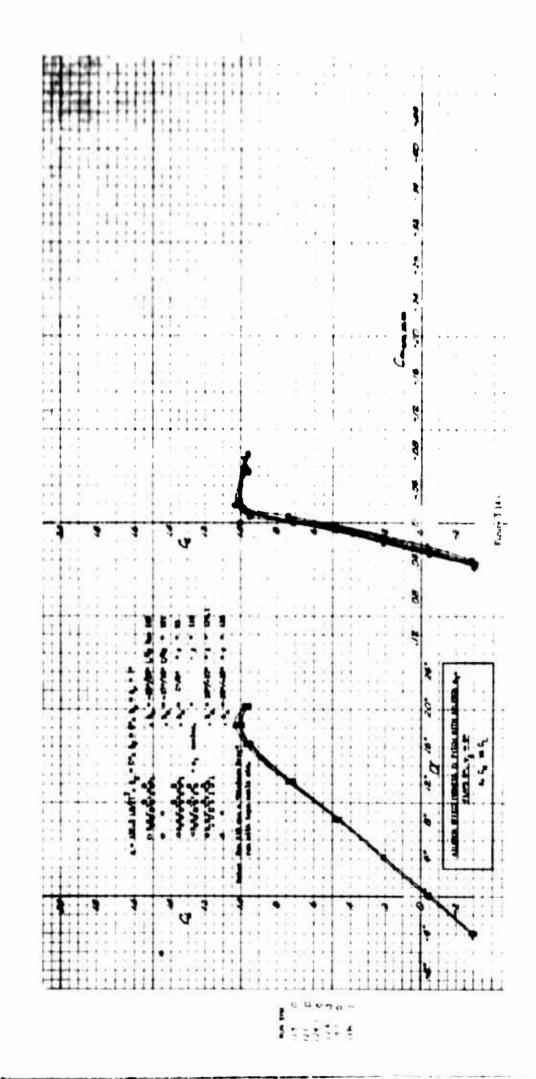
RUN SYM 71 0 73 0 74 \$ 76 0



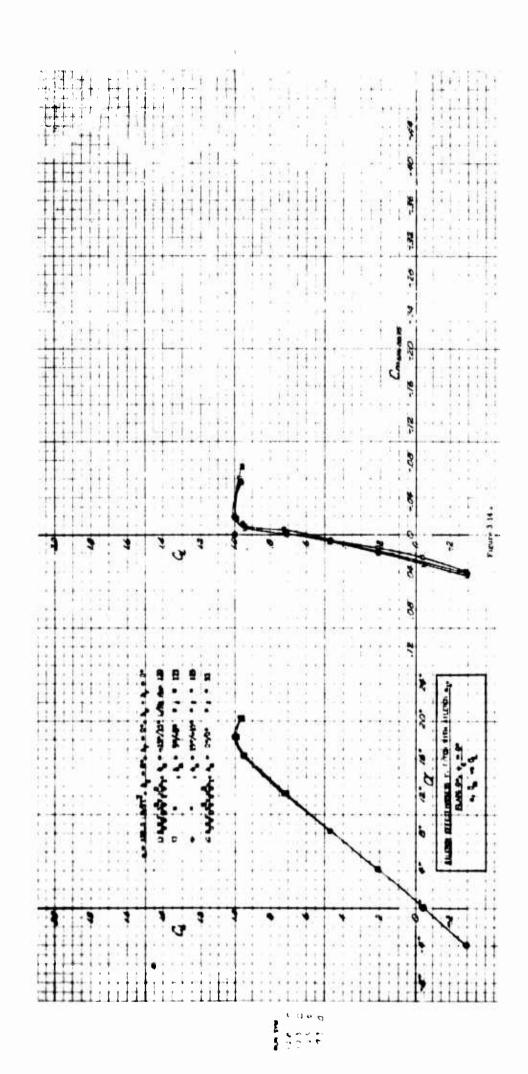




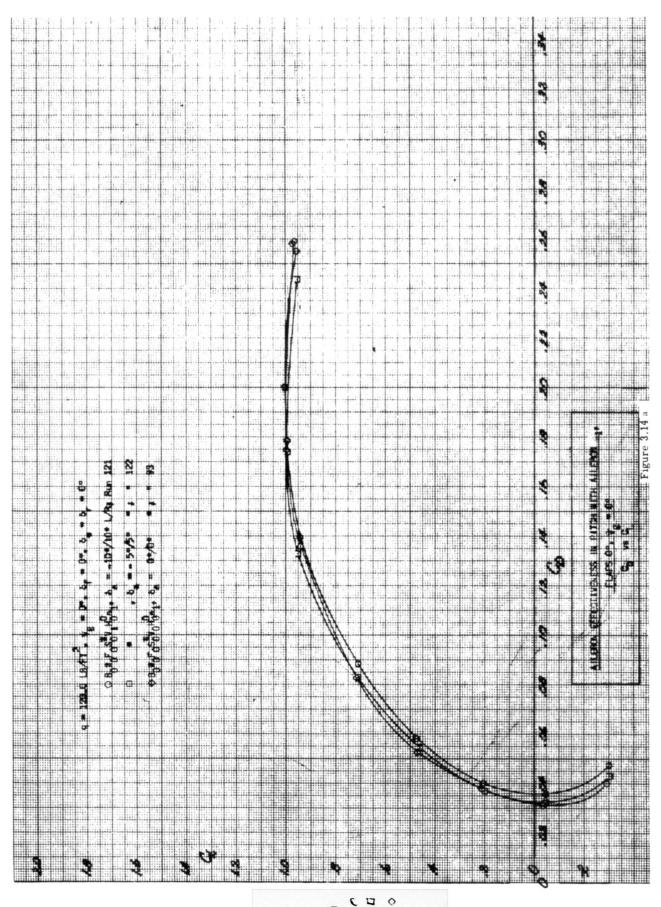




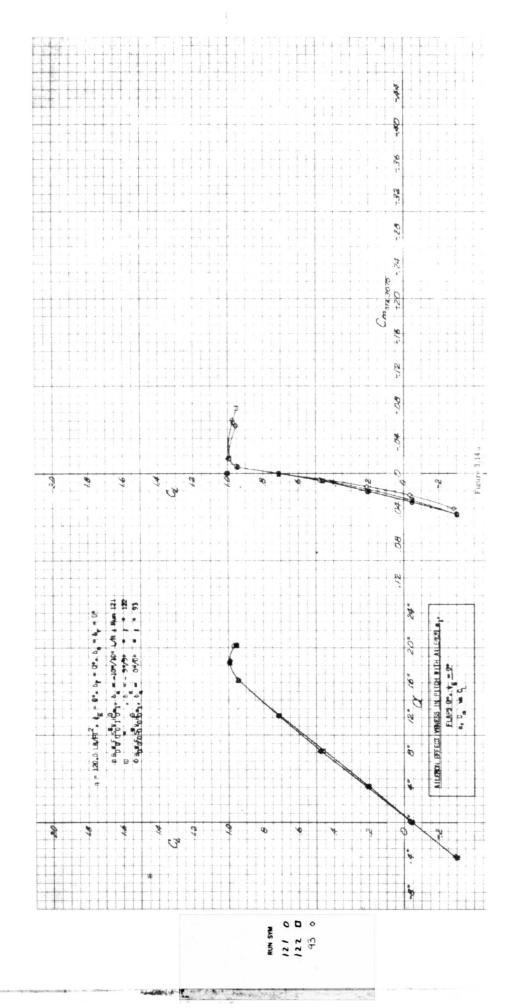
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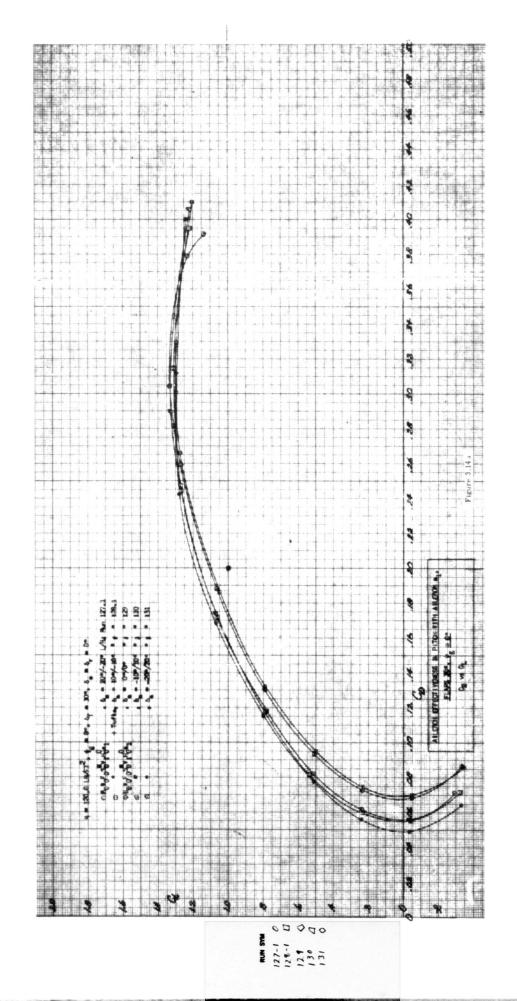


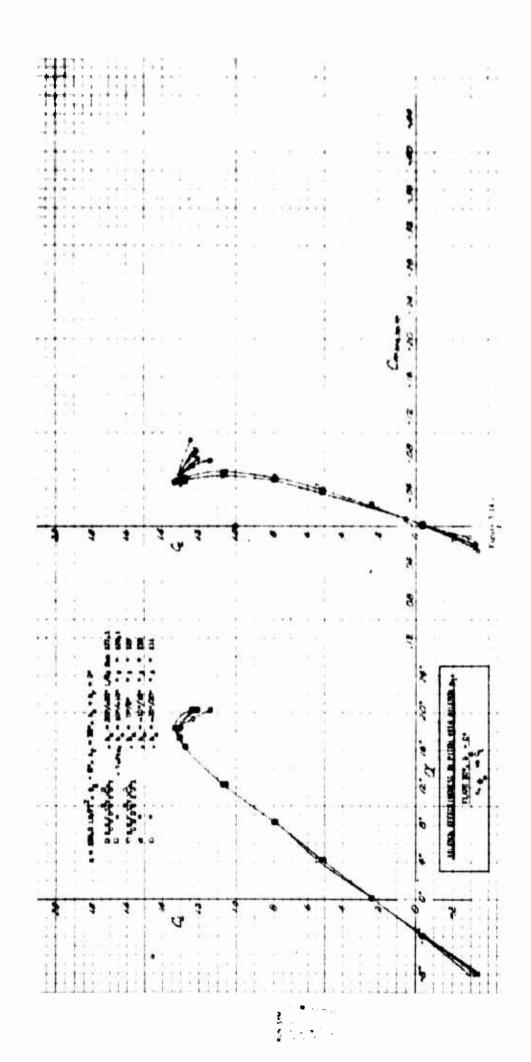
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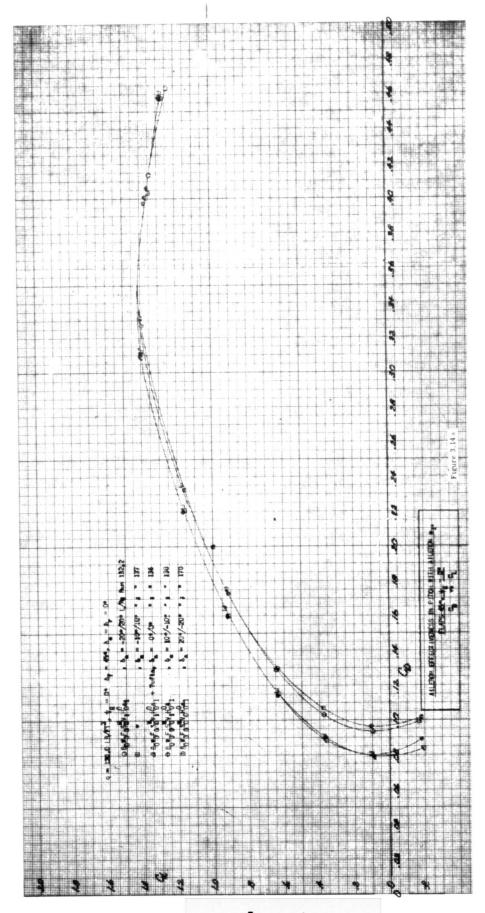


RUN SYM 121 122 [

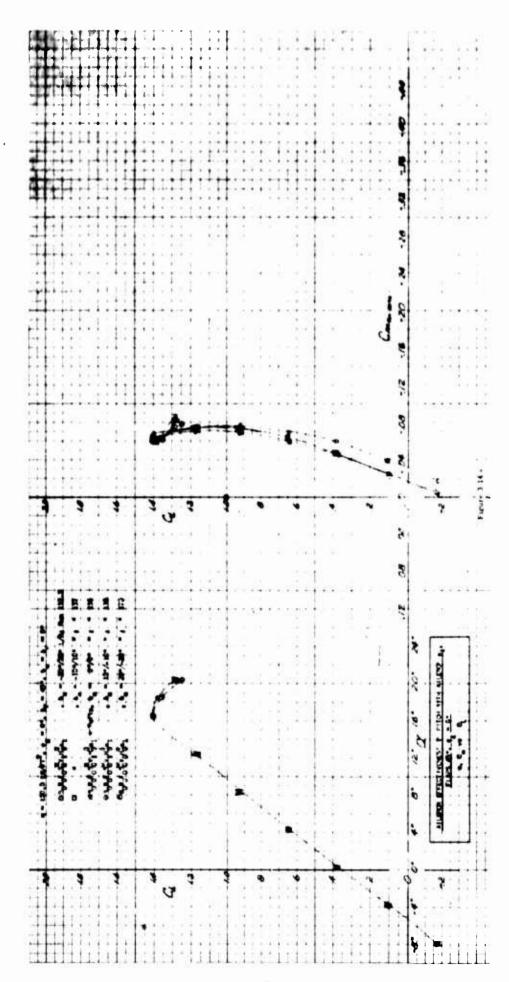




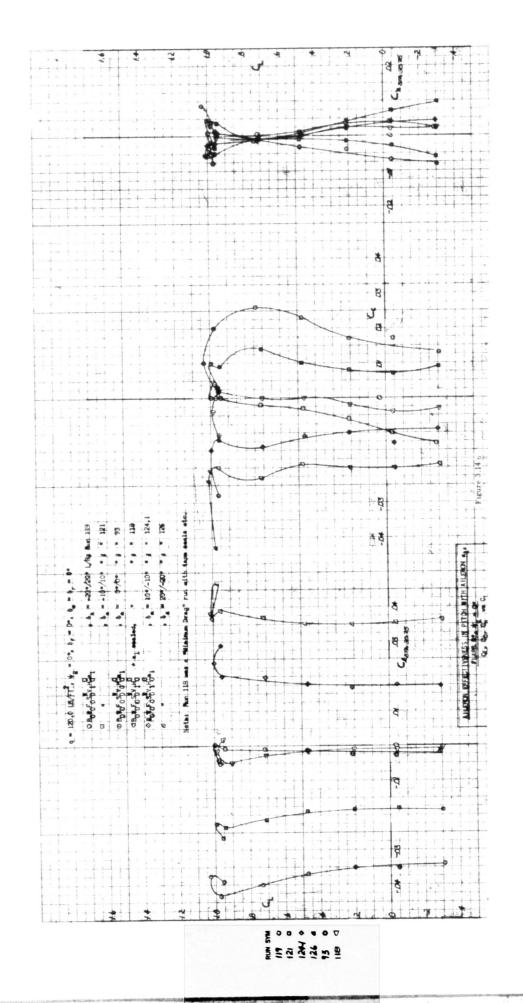


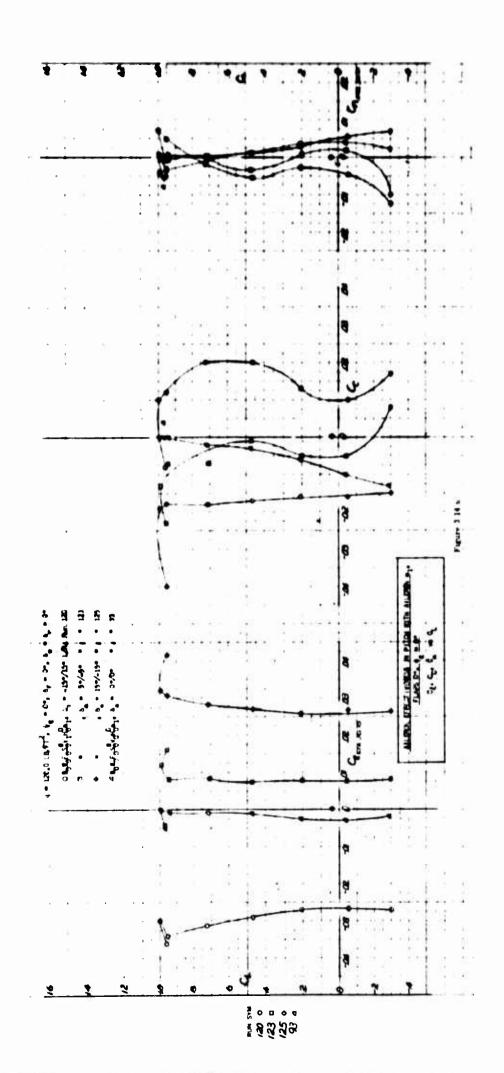


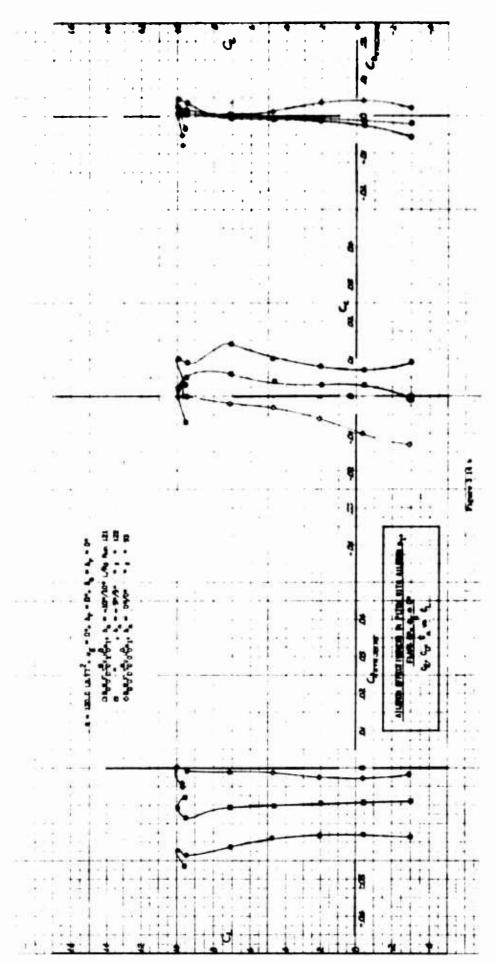
132-2 0 133- 0 138- 0 136- 0



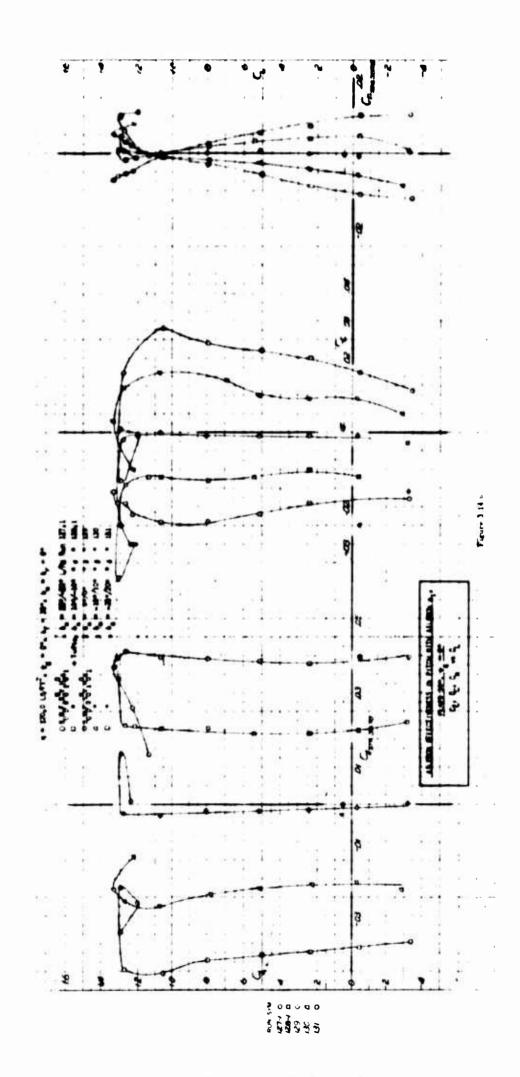
MUN SYN 142 4 5 147 4 5 138 6 1







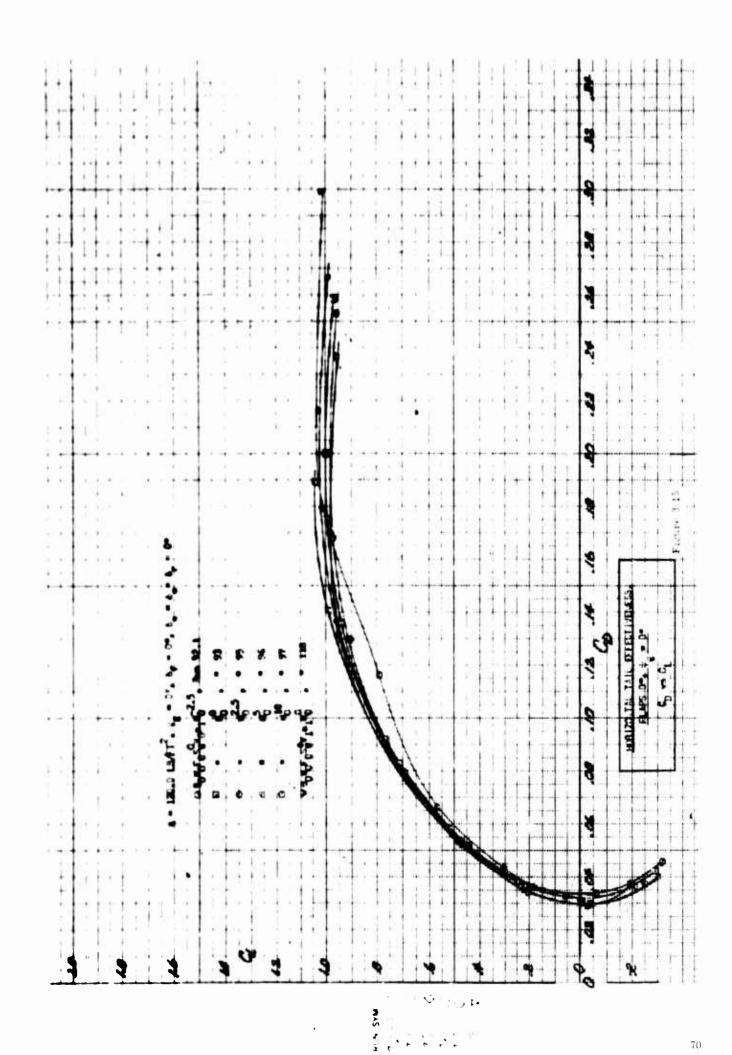
721 0 122 0 122 0

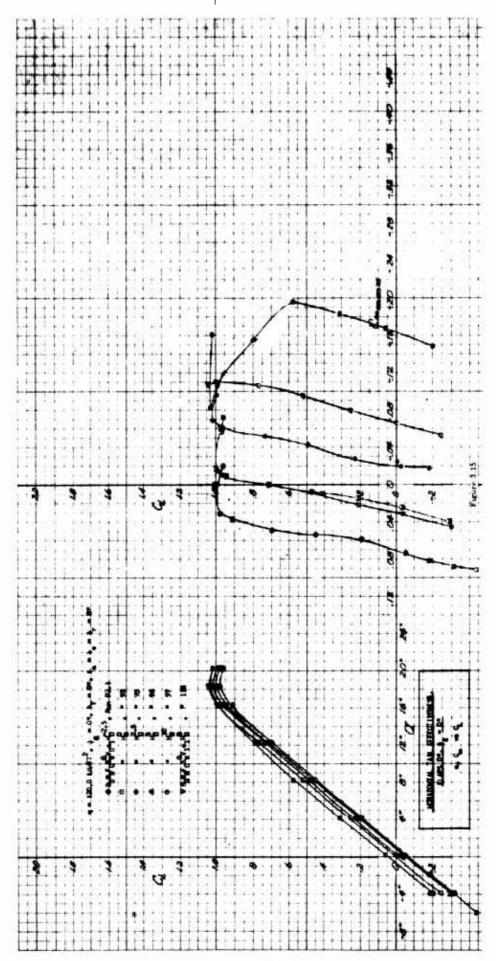


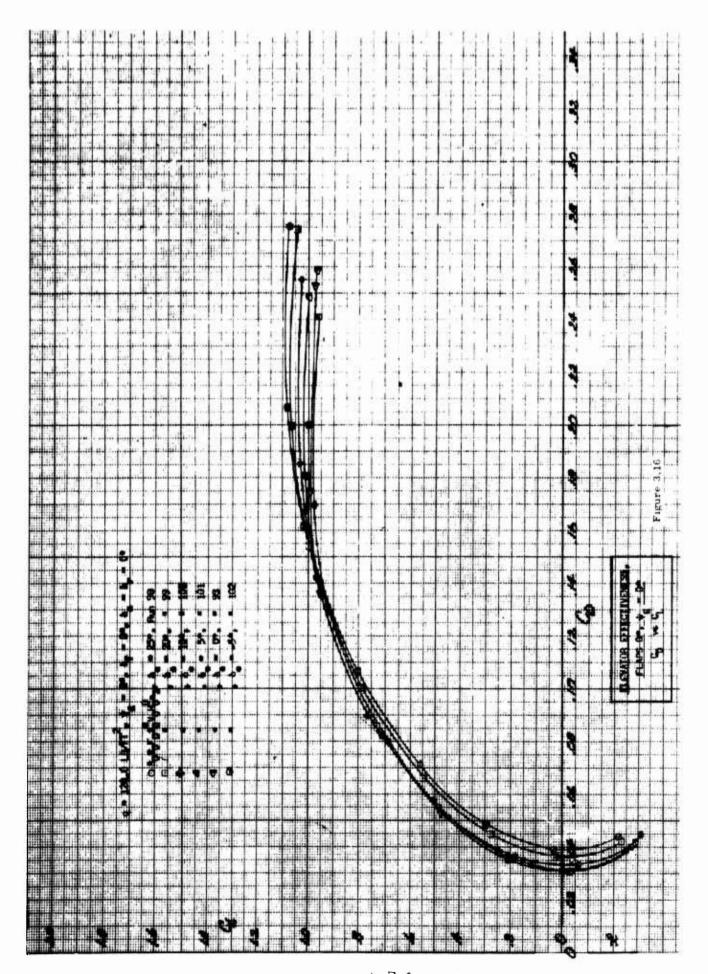
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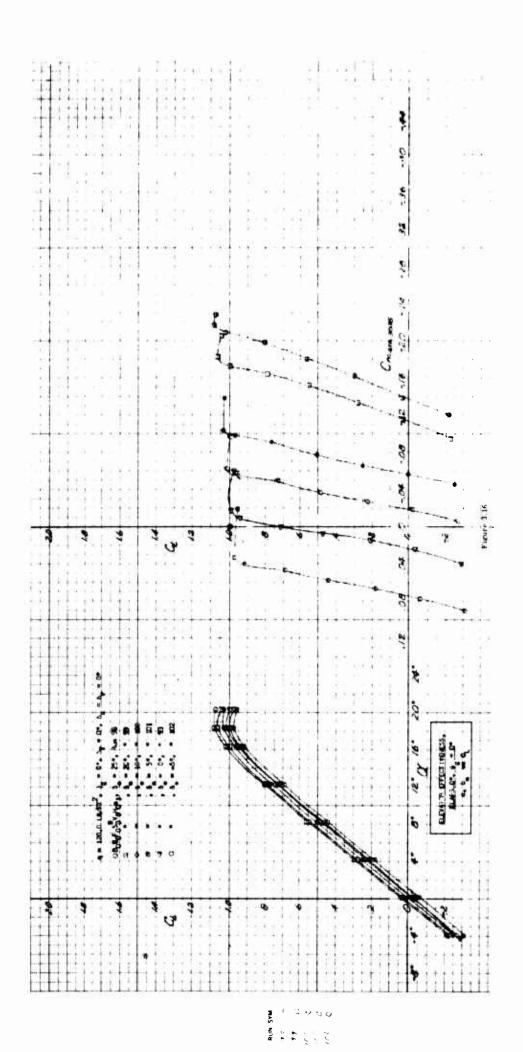
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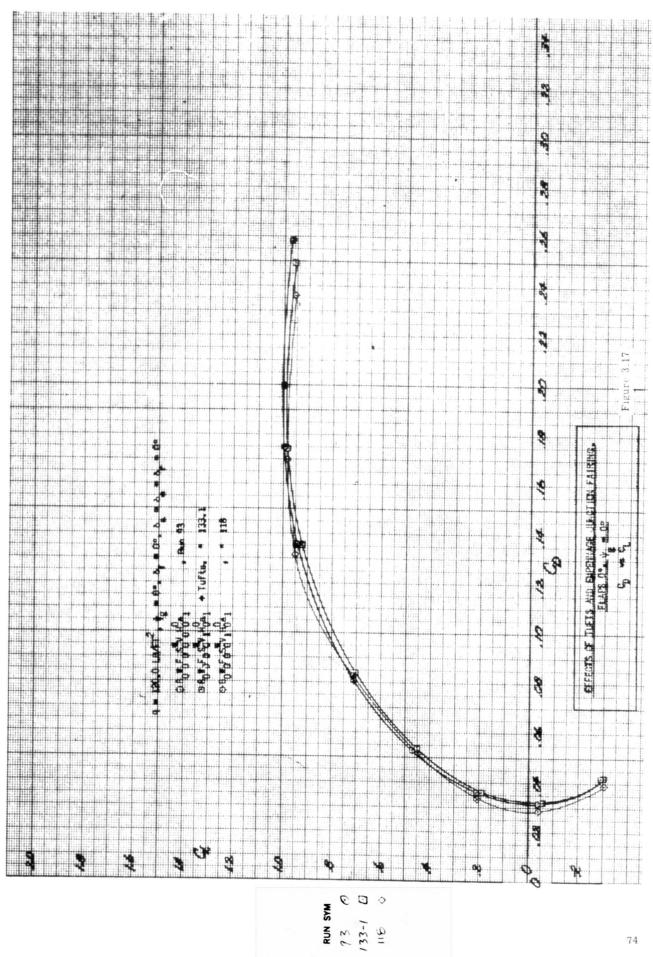








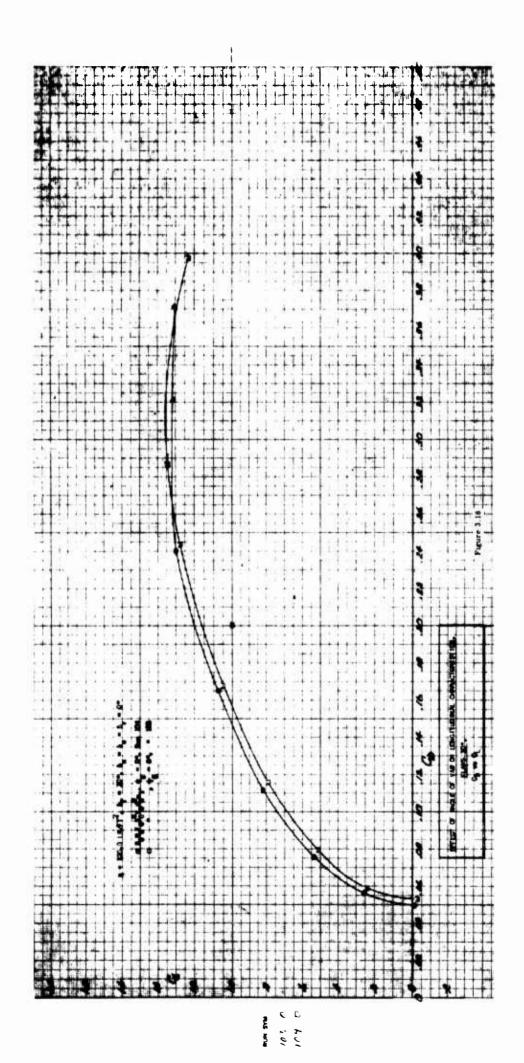
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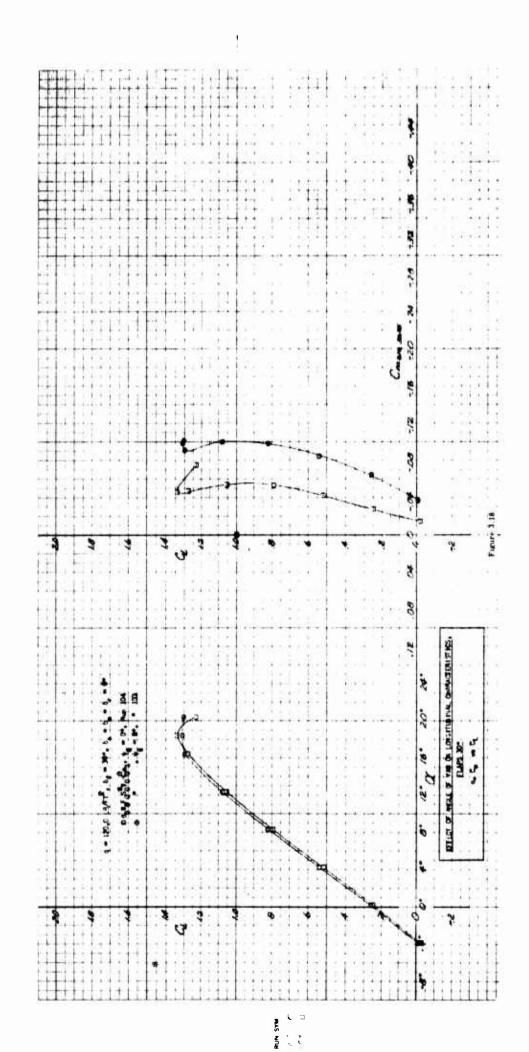


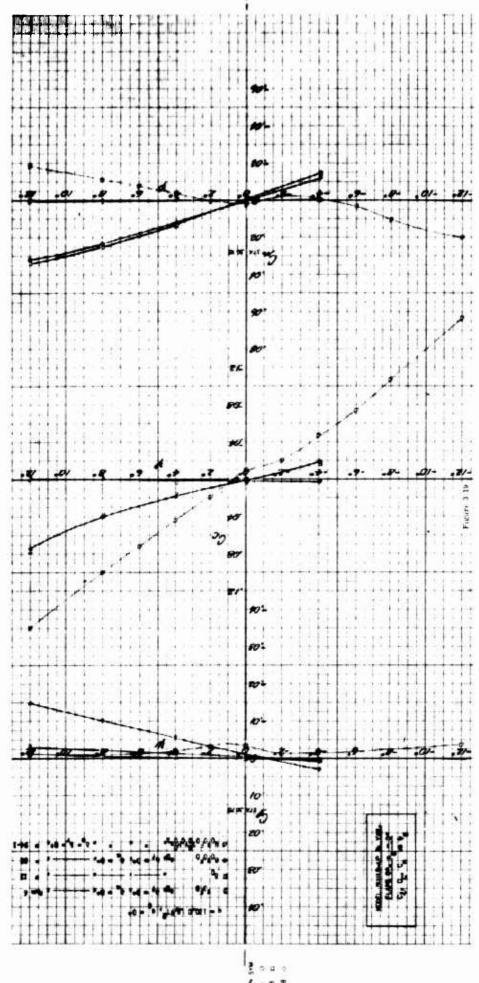
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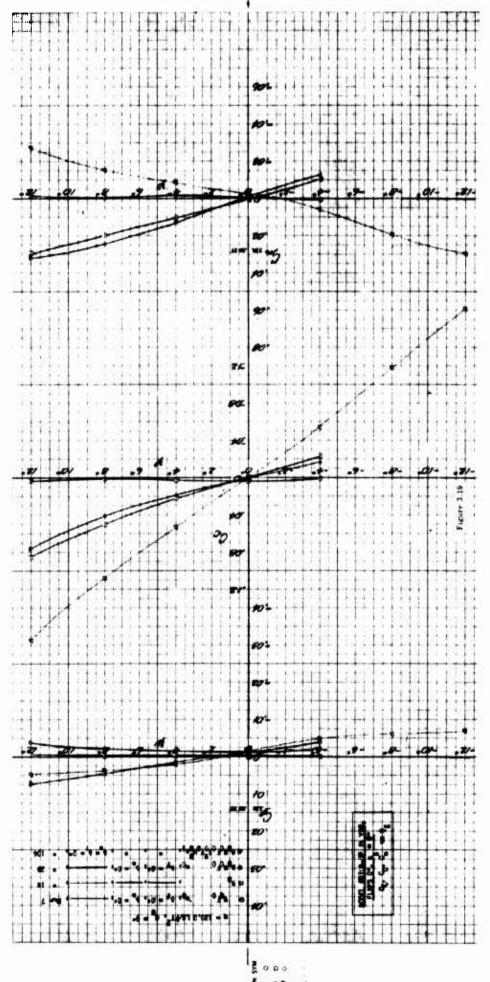
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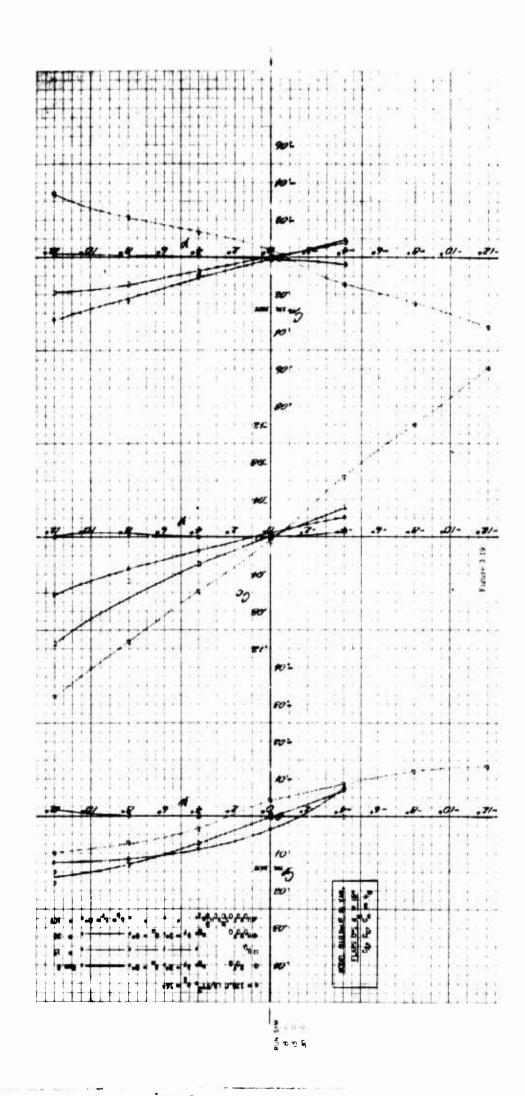


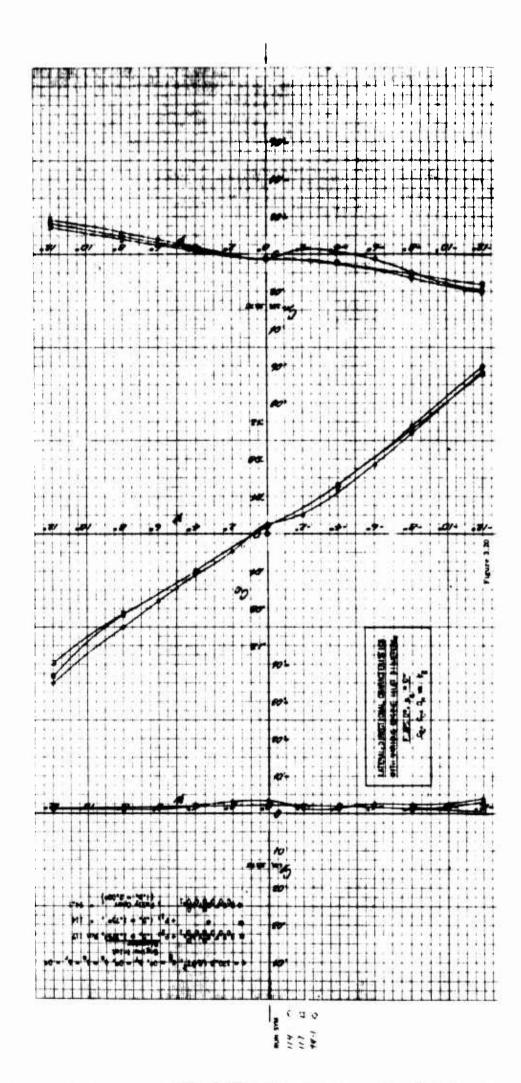


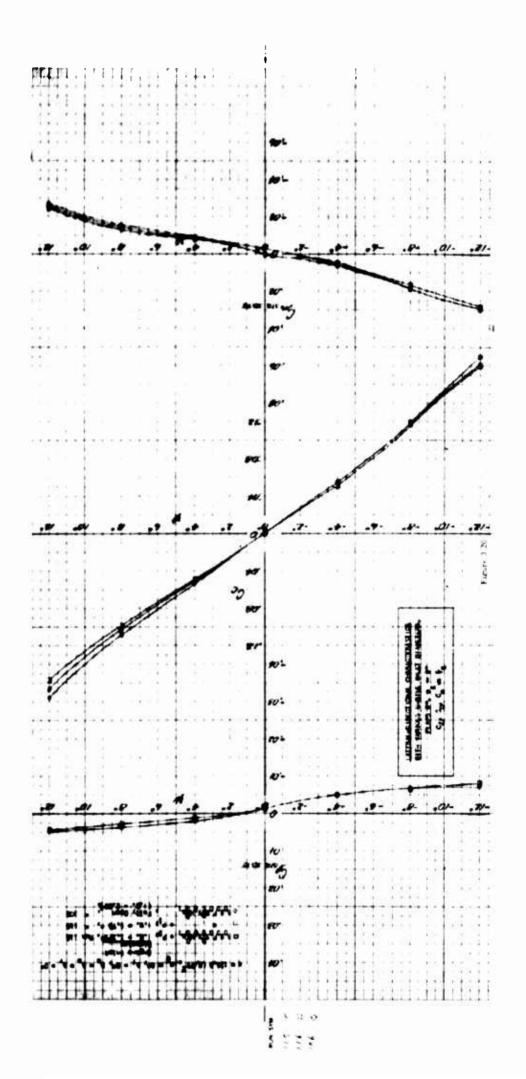
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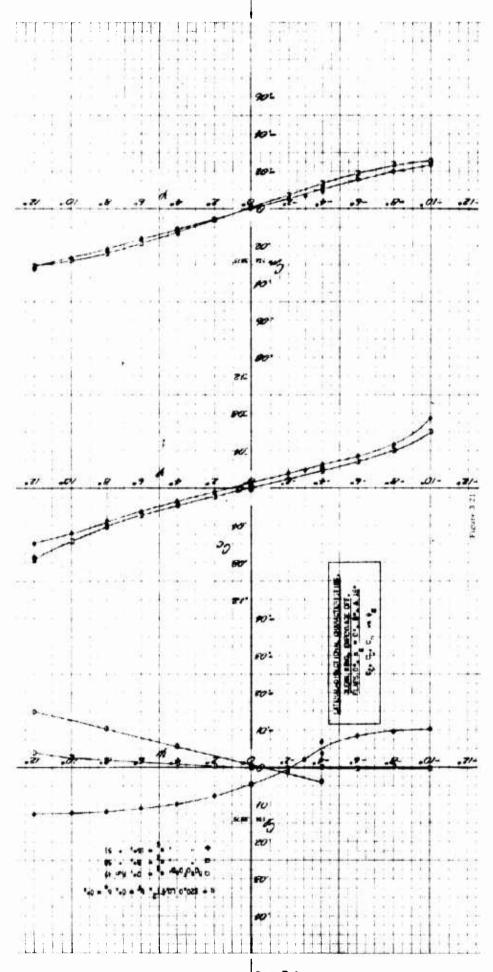


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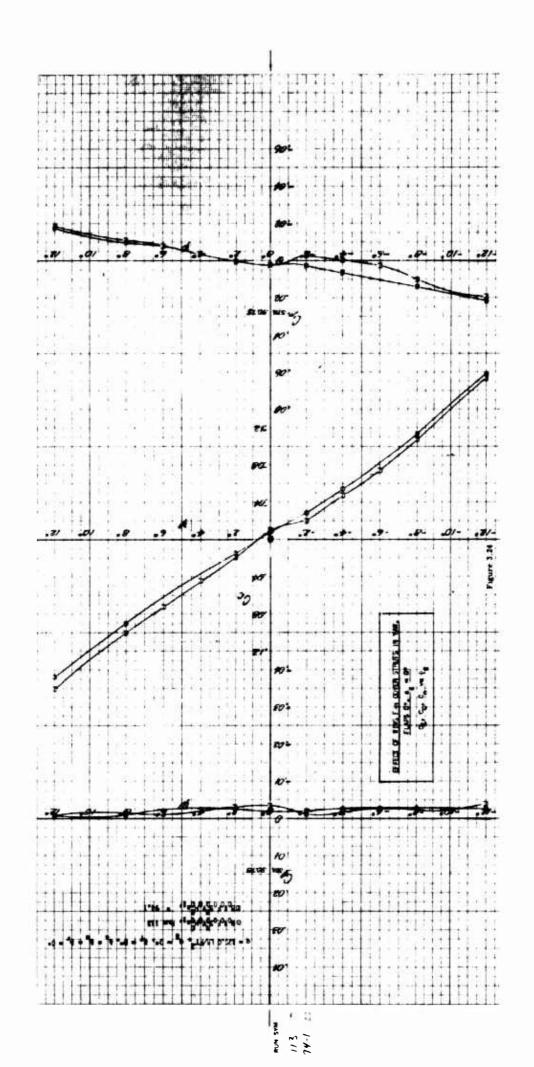


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35 . . . . . Figure 3.22 m: 10 E . . . 5: 1:

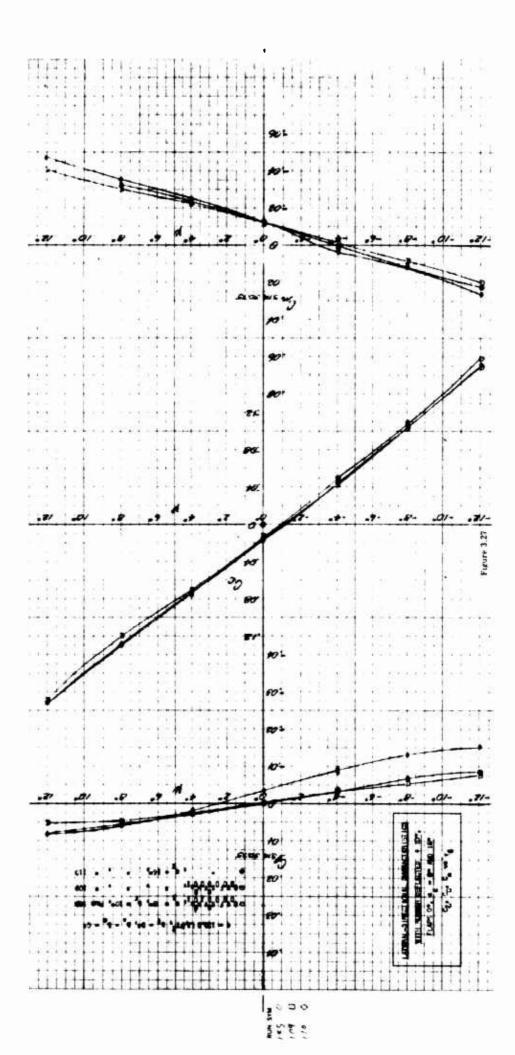
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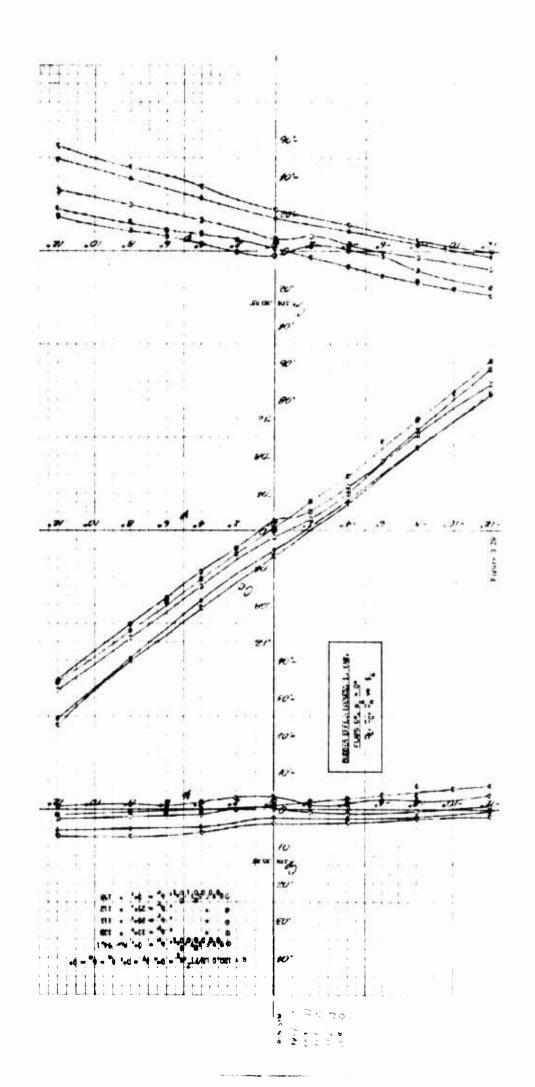


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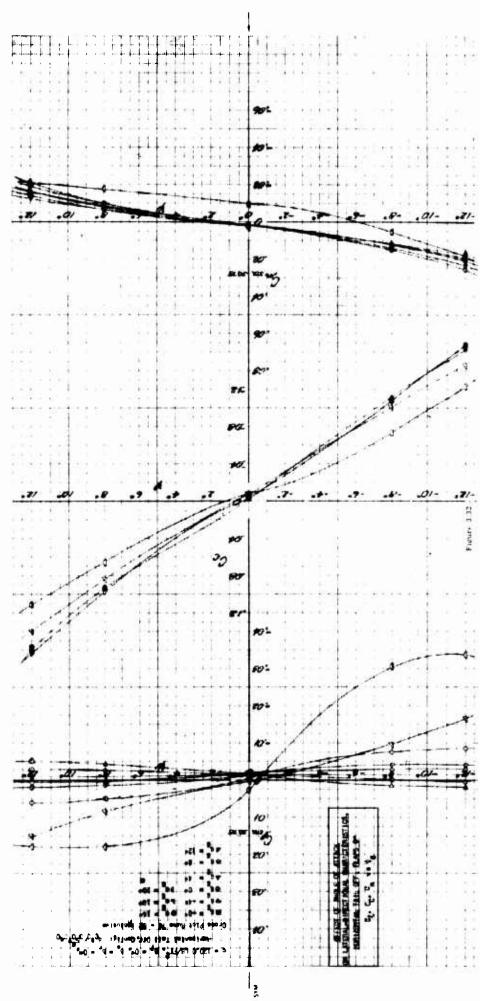
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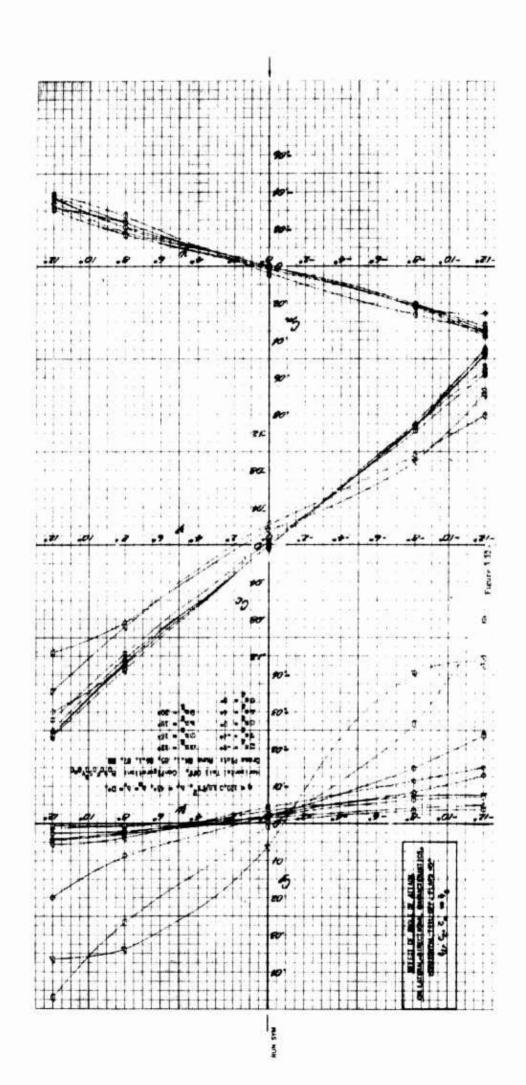
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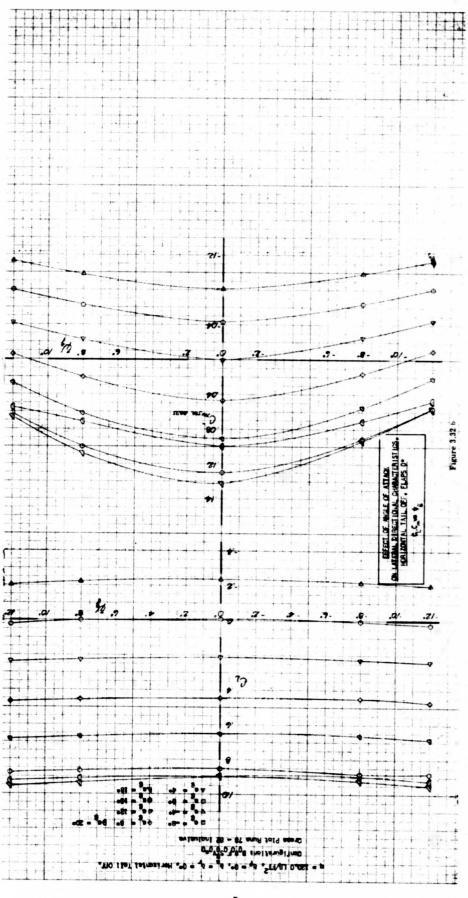
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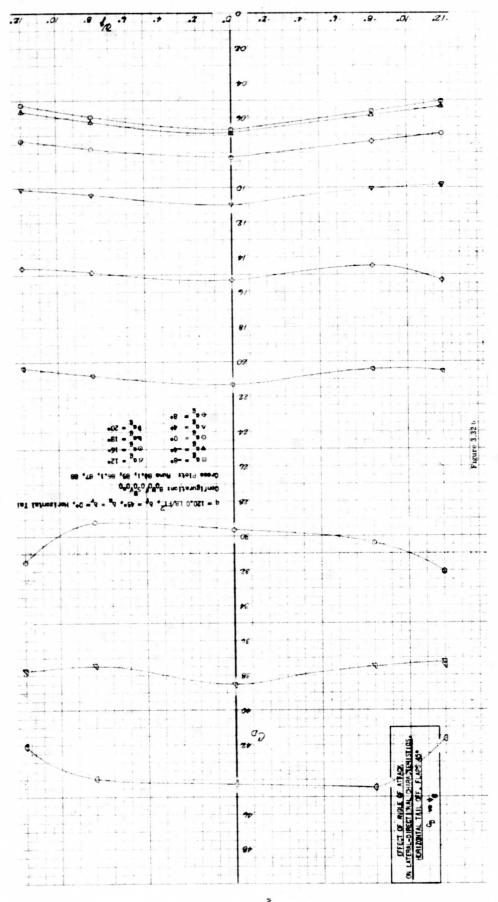
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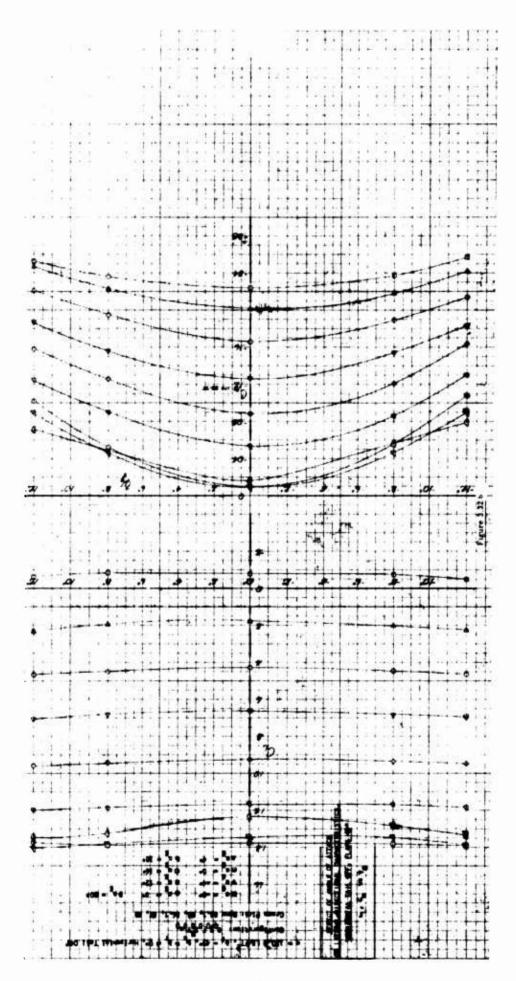




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## TABLE 3.2 PHASE I TEST

## TABULATED FORCE AND MOMENT COEFFICIENTS

STABILITY AXES

Runs 1 to 3, inclusive, were made with the Image System installed for tare determination. These runs are not presented here as tabulated coefficients.

3			OW COFFE WIND THRUSE SIMAL RATA CURET		FORCE ATES STAB			1657 343-0	1	7/06/62
	SPEED WIND	I JANACI	INAL DAIA	9	MOMENT ALES STAB	80		0-4		120.
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4	6.01	8.13	.411	.0357	•040	-05-	-05-	.0008	.0012-	-000
'N'	4.02	4.07	171.	•0504	•033	.05-		•0000	-6100	-000
ٽ	•00•	.01-	-150.	•0188	•016	•05-	-20•		-0015-	-100
7	4.01-	4.09-	-269-	.0251	• 000	,-20·	-70	. 2000	-11000	.995-
Œ	8.02-	9.18-	-125	.0453	.027-	-10.	ı	1	-6000	. 302-
• •	12.00-	12.22-	-421.	.0745	-940-	.01-	-01-	-0005	-5000+	- 100 -
10	16.02-	16.31	-544-	.1215	-052-	-10-	-10.	-1000	. 1000	-000-
12.	18.00-	18.30-	-982-	.2010	-640-	•05-	-05-	10000	.0014-	-600.
11:	16.02-	16.31-	-046-	.1211	-290•	.01-		-1000	-8000	-100
13	20.02	20.31-	.633-	.2720	•035-	-20•	-05-	.0012	.0021	- 500 •
14.	22.00-	22.25	-619-	•3008	.003	.01-	-10.	• 0020	.00100	- 000
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		2 2 2	DATE OF THE PERSON	STAB			0-9	-	120.
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2 8.02-	8-15-5	-418-	.0354	-048-	-10.	-10.	-1000	.0000-	• 000
3 4.02-	A-07-	-176-	.0202	.034-	-10.	-10.	• 0005	-2000	-000
5.01-	-00•	.051	.0166	-012-	-10.	.01-	•0005	-0000	000
4.00	4.08	.270	.0240	• 000	-10.	10.	2000	-9000	100.
9. 8.01	8.17	.512	.0443	.028	-20.	-05-	-0003-	.0011-	.002
10, 12,00	12.23	.746	. 0740	•046	-20-	-20.	-1000	-6000*	• 005
1, 16.02	16.30	.892	.1410	•054	-20.	.05-	.0022	• 0038	-000
19.01	18.29	.917	,2251	. 030	-60-	.04-;	-6000	-00025-	• 003
15 20.00	27.02	0 + 0	. 2013	-910.	-05-	-05-	-0053-	. 6100.	-000
16 22.02	22.26	. 793	.3237	-030-	.050	.02-	-0500•	-0000	.007
18: 24.02	24.25	.749	.3496	.050-	-00-	.02-	•0053-	≎000	•004
				•••	••		#15 IM		4

					*	FORCE ARES	STAB	'n	•	iest 343-0	111	7/06/62
¥-54	JW-SPEED WIND LUNNEL FINAL DATA SHEET	IONNEL	FINAL	DAIA		MOMENT ATES	TES STAB			0-9 NOW		120.
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.9.	-00	.01		.052	.0173	73	-018-	4.02-	4.02-	-5000	• 0000	• 005
"m	-00	.01		•056	.0177		.018-	4.02-	4.02-	-9000	9000	• 005
4	• 00-	.01		.045	. 0165	55	.015-	00.	-00	-6000	- 0000	• 003
ີ ທ	-000	.01		.052	.0176	92	-017-	. 00.4	00.4	.0013-	-6100	.003
·ο'	-00•	.01	1.0	.051	.0216	91	-025-	8.02	8.02	-0000		-005-
	-000	.01	. Kan . 7 4	•057	•0233	33	.020-	12.03	12.03	• 0001-	•0032-	.005-
<b>.</b>	* **	,	, . a * •	٠.	M. 7. <b>a d</b>	AL" ZE,	.19% 4	, 15	# - TI	ta n + z		
	<b>. 12</b>		CID		· .	. <b></b> 1. 7	\. m4		. ~			
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2 8.01 6.17 513	.0457	.023	4.02-	4.02-	90000	-0038-	100.
3 8.00 8.16	.0444	• 027	.03	•03	-1100.	-6000	• 00
4 8.01 8.17 .510	.04.53	.226	10.4	10.4	-0050-	• 0016	.003
5, 8.01 8.16506	.0487	•020	8.01	8.01	-0100-	.0046	100.
6 8.01 8.17 .512	.0496	•020	8.01	8.01	-0100.	.0046	100.
7 8.01 8.16 .491	•0495	•010	12.01	12.01	-0100.	.0073	.003

7/06/62		ပ	-500-	. 001	000	->00.	-100.	-100	
1		73	-0071-	• 0000	.007	.0133	.0151	.0162	-м-гинги - м
NST 343-0	8-0	Ç	.0037	6000	-0011-	2100.	.0018-	-6200	i ar destre
-	1	ş	4.02-	-20-	00.4	6.01	11.99	12.00	tra de miser:
AB	AB	e e	4.02-	-20	CO.	8.01	11.23	12.00	A Made to a
	MONENT ARES STAB	ٿ	.059	.061	•057	.051	760.	.049	•
		ဝ	.1343	.1368	.1396	.1469	15+10	. 1449	e lu <b>us e m</b>
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PEED WIND		ď	16.01	16.01	16.01	16.01	10.01	16.01	वीक्यून अस्तिक <b>का</b>
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W	PEED WIND	TINNEL	OW. CPEED WIND THINKE FINAL DATA CUEC		FORCE ATES STAB	<b>6</b>	-	ter 343-0	#¥4	7/06/62
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ä	ສ	8	າງ	Co	Ę	3	4	5	75	ှင် ပ
N	8.00	8.00	•013	.0137	.053	00	00•	-0000	-0002	-000
m m	4.02	4.02	•003	.0145	.031	00	00	-0000•	• 0005	-200
đ	000	00.	-000	•0139	600.	0	000	-6000	•000•	-900•
ເດ	4.00-	4.00-	-200-	.0143	-017-	00	00.	• 0011-	• 0005	-200-
୕୕ଡ଼୕	8.02-	8.02-	-210.	.0167	-041-	00.	00•	-6000•	•000	.003-
~	12.02-	12.02-	-025-	.0192	.061-	000	00•	-1100	9000•	-009-
<b>'</b> Ø	14.01-	14.02-	-034-	.0229	.069-	000	000	-0015-	• 0006	-900
9	8.01	8.01	-012	.0129	• 052	000	000	-9000	• 0000	- 500

· Tame Comment

Rums 10 and 11 were made with the Image System installed for tare determination. These rums are not presented here as tabulated coefficients.

Š	OW SPEED WIND THANEL FINAL DATA SHEET	TINNEL	NÃI ÔATA C		FORCE AERS STAB			ver 343-0	F-14	7/05/62
	21.16	OUTUER II	וואר האוא		MOMENT ARES STAB	0		12-0		120.
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N'	8.00-	8.00-	-013-	.0142	-051-	00•	-00	-0017-	• 0003	000
15	4.00-	4.00-	-600	.0159	-260*		10.	-0100•	• 0000	000
17	4.00-	4.00-	-200	.0155	-035-	100	60.	-0011-	9000	000
4	4.02-	4.02-	-200	.0157	.105-	00.	-00	-1100	.0003	000
ືທີ	-01-	-10•	•003	.0152	-600•	.01	.00	-0011-	.0003	000
<b>΄</b> φ <sup>*</sup>	4.00	4.00	800.	.0154	•016	• 01	10.	-00100-	.0001	000
1	8.00	8.00	•016	•0179	•039	.01	10.	-1100	0000	000
6	12.00	12.00	.025	.0197	•056	.01	•	-2000•	0000	-100
6	16.00	16.01	•034	.0214	-072	.01	• 01	-0011-	. 0001-	• 005-
` <b>⊙</b> `	18.01	18.02	-040	.0241	• 082	• 01	•01	-9000-	• 0005	-005-
1 1	20.00	20.01	• 048	•0272	• 080		· ·	-5000	. 0001	. 000
[2]	22.00 8	22.01	.051	.0300	560	10.	.00	-9000•	00000	000
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r Saut	l" <b>3110</b>		## 20 <b>1</b>				C L-sel	Re <sup>res</sup> i	<u>ــــــــــــــــــــــــــــــــــــ</u>	*.

N-SPEE	DWIND O	OW-SPEED WIND TUNNEL FINAL DATA SHEET	FINAL	DATA			STAB			13-0	i -	1/06/62
_	ı,	Ø		ت	<u>.</u>	-		4.	*	5	. 15	S
10	-00	-00•		•004	9910		-010-	4.03-	4.03-	-6110.	90000	-017-
······································	-05-	-05-		•005	.0149		-600	00.	-00	-2100	- 0005	.001
-0-	-00-	-00•		2000	. 0165		-010-	5.	10.	62100	-6000-	.016
	-10.	-10.		.005	1910.		-610-	8.00	9.00	.0247	5000*	.038
<u> </u>	5.	-10-		• 008	• • • • • • • • • • • • • • • • • • • •		-210-	12.03	12.03	•0332	-4100.	•076
				(f = ) (4)				-				

					FORCE ALES STAB	AB		rtsr 343-0	BAAE	7/06/62
LOW-SPEE	O WIND	IONNEL	A A		MOMENT ANES STAB				-	120.
Pt	ι δ	υ I	اب	ဝ	£	$\psi_{\mathbf{c}}$		້	75	ပ
E.	8.01	8.01	•010	9610.	•038	4.02-	4.02-	-0104-	-0005	.023-
 	8.01	8.01	.017	.0166	•042	-10.	.01-	-0014-	.0005-	000
້ນີ້	B.01	9.01	.017	.0193	-037	4.01	4.01	6600.	· cc02-	• 023
(B)	8.01	8.01	•021	•0206	.032	00°60	8.00	.0195	.0001-	050.
, , , , , , , , , , , , , , , , , , ,	8.01	8.01	.027	.0215	•024	12.00	12.00	.0250	-9000	• 085
TILE 6.1			₹ ₩10-1 <b>2</b> ₩	wites	W. 180	aures.	rusu <b>a</b> s	n .mare	<b>.</b>	• १८व <b>ं</b>
ا الما دند المانية	A.F. 1.		· . 3:4.1			rung.	orang .	, r <b>=</b> .		<b>1</b> . 1,
ær.r.	rau		34 T		779484	P-124	• • • • •		1 mm 11 s	44 770

						FORCE AJES	IS STAB	αĎ	E	пя 343-0	Tree	7/06/62
À	.UW-SPEED WIND IUNNEL FINAL DATA SHEET	IONNEL	FINAL	DATA	SHEET	MOMINT ATES	ST		•	0-51 ans	•	120.
ā	້ອ	Ø	) ·	Č	တ္		C <sub>B</sub>	Ų,	ψ.	ڻ	75	ပ
	3 16.01	16.02	7	•038	.3236	9	. 070	4.02-	4.02-	6400.	.0003	.032-
	16.02	16.03	·	•036	0225	(C.754 <b>V</b> )	.077	-00	000	.0019-	-0000	-100
6	16.03	16.04	77	•037	.0218	60	.077	.02-	-05-	• 0000	•000•	-005-
ເດ	16.02	16.03	<u></u>	.037	.0245	 	.071	00.4	00.4	• 0074	-2000	.020
	16.02	16.03		•039	.0278	70	•064	8.00	8.00	.0141	-1000-	• 047
· •	16.02	16.03	٠. ٠	•048	0275	in	•057	12.00	12.00	.0187	.0018-	.114
	e se		a. r c.		**************************************	- 1 AT&	a 94	المساد الم			• • •	، هد
, i .	7 44		1 700	,	نية عد			14 et 19	U I ST	•••	• 📤 1	• •
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W.SPEED		DW.CPEED WIND THINNEY FINA! DATA CHEFT	AT DATA C	7	PORCE ALLS STAB	Ø		HST 343-0		7/06/62
		TOTAL TIME	C KIKA 4	.	MOMENT ARES STAN	TQ.		16-0	•	120.
P: QE		8	Š	CO	C.	Ų	¢	C	75	သ
8	8.00	e. 13	•486	.0515	106	.00.	-03-	.0003	.0020-	-600•
7.	4.02	4.09	.243	.0299	076	.03-	.03-	-0002	-9206-	-110.
	.03	• 03	.024	.0246	.037	.03-	.03-	-0000	.0035-	-010-
0 0	4.01-	4.07-	-505-	•0316	-200	.03-	-03-	-0000-	.0024	-008-
12: 8.	8.00-	8.14-	-447-	.0453	-053-	•03-	•03-	-9000•	.0025-	-600
13, 12.	12.00-	12.21-	.672~	.0715	-950	• 03-	• 03-	-1000	.0023-	-010-
15: 14.	4-00-4	14.24-	.778-	. 0931	-112-	.03-	.03-	-9000	.0029-	-610-
8	8.00	8.10	.344	6050	.125	•03-	.03-	£000• .	• 00200-	-900-
4	4.02	4.04	•087	.0236	960.	.03~	-03-	• 0005	-9200-	-0110-
œ,	.03	.01-	-132-	.0245	.057	.03-	.03-	• 0000	-0035-	-010-
10.	4.01-	4-11-	.349-	.0319	600	.03-	.03-	-2000	-00054-	-008-
12. 6.	-00-9	8.18-	.573-	.0459	-039-	.03-	•03-	-9000-	.0025-	-600
13: 12.00	-00	12.24-	-786-	•0724	.084-	-03-	.03-	-2000	•0023-	-010-
15 14.00	-00	14.27-	• 648-	.0940	-105	-03-	•03-	-9000-	-6028-	-010-
بد خصا	7. T.	Mar a small	UW A	act m	us n m	`		may i	v76 (	
, tal gra	, meret		r aş ugdağ	`*ET_+&		.T.4 <b>182</b>	er.el erd			
				T	-	-				

3	COCCO, WIND	TINNE C	CON COCCO, WIND THRIVET CHASE DATA CHEE		PORCE ARES STAB			ft# 343-0		7/06/62
	SPECE WIND	ומשענו גו	MAL DAIA S		MOMENT ATES STAB			17-0	•	120.
7	$\alpha_{\mathbf{t}}$	B	CL	C <sub>D</sub>	Cm	W.	<b>A</b>	<b>"</b> 0	75	 C
4	3.02	8.07	-155	0240.	161.	-50.	-05-	-5000-	-0054-	-900-
IU	4.00	3,98	-074-	.0434	.169	-20.	-00-	-0003-	-1000	-600
ø	6	60.	-320-	€ 0343	135	-20-	-05-	• 0005-	-0039-	-010-
-	4.00-	4.13-	-577-	.0803	660	-05-	•05-	-2000	.0034-	-011-6
13	8.00-	8.26-	-34G-	1176	0.05	•05-	-80.	-6000	.0032-	-0110-
Ξ	12.01-	12,35-	1.086-	.1717	.021	-05-	•05-	-8000	.0035-F	-210.
12	14.01-	14,38-	1.187-	.2103	-306-	.02-	.02-	-1000	•0018-	-1110+
4	8.02	8.03	.038	.0458	-212	.02-	-05-	-5000	•0054-	-900•
ິທີ	4.00	3.93	-530-	.0436	•190	-05-	-05-	-0000-	.0031-	-600•
0	.01	- 14	-476-	.0549	.155	•02-	•05-	-2000	-6600	-010-
~	4.00-	4.22-	.717.	-0812	'n	.05-	-05-	-0000-	.0034-	-0110-
13	3.00-E	8.30-	-976-	.1183	690	-20-	-05-	-6000	2000.	-110-
	12.01-	12.39-	1.214-	.1831	•035	-05-	-05-	-0000·	•0035-	-012-
12	14.01-	14.42-	1.317-	.2219	600.	-05-	.08-	000	• 0018-	-0110-
3 %/ <b>#-4F</b> ~-			e seus tand		10E 11 4 M		40 2 12	eku zeran	A	. V. e <b>turk d</b> .
							100			

3	DEED WIND	COW COCCO WIND TIMME! CRIM! BATA CHES	M PAYTA CO		PORT ARE STAB		•	12H 343-0		7/06/52
	TEEU MINU	IONNEL TIM	AL DAIA S		MOMENT ARES STAB	8		19-0	•	120.
Z.	υ	 8	ر ن	o <sub>o</sub>	٣	ψ	÷.	5	. 73	, , , , , , , , , , , , , , , , , , ,
2	8.01	8.03	.073	.0637	213	-05-	.02-	.0001	-0041-	-600
4	4.02	3.97	.164-	.0667	.192	-05-	•05-	• 0005	-0045-	-015-
ິທ	-02	-01.	-400-	.0770	.157	-05-	.05-	•0005	-0600	.013-
۰ ۵	4.01-	4.21~	•639-	.1042	.116	-05-	•05-	-6000	-6003	-013-
۲	8.01-	B.30-	125	.1471	.073	-20-	•03-	-8000	-6200	-010-
<b>– 75</b>	15.01-	12.37-	1-144-	00%1.		.020.	•05	-0100-	.0344-	-1110.
1	12.00-	12.36-	1-154-	.2008	345	-00-	-05-	-0100-	-1500-	.012-
15	14.00-	14.39-	1.256-	.2475	.030	-05-	•05-	•0359-	-60000	·012-
N.	8.01	7.99	-770.	•0637	623	-05-	-20•	. 2001	-0041-	-600
đ	4.02	3.92	-320-	.0671	.213	.05-	-05-	• 0002	-0045-	-210.
	20.	.15-	. 542-	.0776	.175	-20.	.05-	• 0005	-0000	-013-
Ø LEET	4.01-	4.25-	-077	1001	.131	-20.	-05-	5000•	.0039-	-610-
	8.01-	8.33-	1.021-	.1430	•084	-05-	•02-	-0000-	•0059-	•010•
(C)	12.01-	12.39-	1.234-	1968	.051	-05-	-05-	•00100•	-0004	-0110-
	12.00-	12.39-	1.244-	.2018	•054	-05-	-05-	-0100-	-1500	.012-
C)	14.00-	14.42-	1.346-	.2486	•038	-20	.02-	-6200	-6000	-210-
,										

Runs 19 to 24, inclusive, were made with the :Image System installed for tare determination. These runs are not presented here as tabulated coefficients.

					STAB			23-0	•	120
E	j p	B	ئ	C <sub>O</sub>	C,	$\psi_{\mathbf{i}}$	e.	- "3	75	°C
'n	8.02-	8.04-	-990•	.0635	-122.	-000	-900	-2200-	-6100.	•00•
ຕົ	4.02-	3.97-	.173	•0649	.193-	-04-	-00	-0013-	-1200	.003
4	00.	.12	604.	.0781	-151-	-60-	.03-	- 0000	-1200	-100
เก	4.01	4.21	* 644	1026	-115-	-04-	.040.	-4000·	-1200	· C05
~	8.02	8.31	•926	.1465	-670.	- 40	-04-	-5000	.0029-	.003
T	12.00	12:36	1.154	. 2027	-045-	-60-	•03-	-0000	.0036-	•00•
0	16.02	16.45	1.374	• 3036	-110.	-00	•04-	. 1000.	-1100.	-200-
ō	20.01	20.40	1.263	4564	•035-	-00.	-04-	-0500	-0115-	600.
2	19.01	13.44	1.385	.3976	610-	-04-	-90•	-6200•	.0160-	.017
'n	22.02	22.41	1.238	.5035	-190	-00.	-00.	-2600.	•010•	-013-
14	24.01	24.38	1.175	. 5455 E	-6007.	63-	.03-	-0140-	.0206	-650

7/06/62	0	-001-	.001	. 631	100.	100	• 005	-202-	• CC4-	.026-	.015-	•021-	-,.
Ĭ -	. 3	-2000	-8000	-0017-	-0017-	-0014-	-0250-	•0029	.0032-	.0021	• 6003	.3169	
nn 343-0		-2100•	-6100	-2000	-0000-	-5000•	3-600C ·	-6000	-0026-	.0013	.010E-	.0105-	•
2 -	4	-03-	.03-	.03-	•03-	-03-	.03-	•03-	-03-	.04	-00	-000	
	W <sub>E</sub>	.03	.03-	-60•	.03-	•03-	.03~	-C3-	•03-	-04-	140.	.040	
MOMENT ARES STAB	ů Š	-161.	-171-	.137-	-060	-090•	.024-	•022	.010	.325	.043-	-900.	7511
13	Co	.0466	.0426	•0541	.0788	.1175	.1714	.2466	.3915	3338	.4330	.4711	20 0 0
LOW-SPEED WIND TUNNEL FINAL DATA SHE	C	-182-	•084	.325	.577	• 930	1.090	1.259	1.174	1.257	1.113	1.079	
TUNNEL F	Ö	8.05-	3.99-	60.	4.19	8.27	12.35	16.39	20.37	19.40	22.36	24.35	
PEED WIND	α¢	8.00	4.01-	-10.	4.01	8.01	12.01	15.00	20.01	18.01	22.01	24.01	
LOW-S	P.	n n	<b>4</b>	້ທີ	Ó	<b>~</b>	<b>დ</b>	Ο	0	11:	12	13.	i an aid ain aid

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3	COCCO MININ	Tringer, F	CAW COCKS MAN TIMME! COLS! BATA CUT	t	MACT ARE STAB			243-0	•	7/00/62
		IONACE T	MAL DAIA S		NOMENT ARE STAB	9		C-12		120.
Z	ď	B	l J	g G	C.	ė,	*		75	د
(1)	8.03-	8.18-	-989-	•0520	-105-	-00	-00-	-0015-	-0002	-100
m	4.02	4.09-	-248-	•0300	-075-	100	-90.	-1103.	.0001	-100
# L	-10	-10	-021-	.0235	-0360-	-50.	•03-	.0011-	-2000-	-000
ย	4.00	4.06	.20:	.0295	•000	.03-	-03-	-0100.	-9000-	.001
-	8	89 14	0440	•0454	•051	•03-	-03-	-0014-	-1000-	100
0	12.01	12.22	•670	.0721	960	.03-	-03-	-0100-	-0011-	.001
0	16.00	16.27	.861	•1196	151	-03-	-60-	-0000-	.002v	-900
0	18.02	16.30	.920	.1738	.137	-£0°	-03-	• 0000	•0040	-600
-	20.03	20.31	668	.2414	260	• 03-	-03-	-1900	1010.	-020-
12	22.01	22.27	.839	-2935	.050	•03-	3.	-0000	.0119	•050-
	24.00	24.25	118	•3336	-045	0.0	-00	-5100-	.0117	-017-
13	18-01	18.29	-908	. 1726	.137	3	-00-	80CO*	.0037	3-11C.

120.	- u-r	-610-	.001 -	. 910.	. 040	0.19	··	` <del>-</del>	
120°52	ئ						r. m.	***	
	75	.0032	-2000-	-0029-	-1010-	•014¢-			•
NE 343-0	<b>.</b>	-0121-	.0012-	•0114	.0230	.0313			
	*	•	•05-	00.4	6.01	12.00	Produces	.egr	
9 9	ψ	4.02	-05-	CO.	8.01	12.		• •	
MONINT ALITS STAB	SE C	-650	•038-	-041-	-640-	-047-			
		.0259	.0242	.0261	.0256	•0248		•	
LOW-SPEED WIND TUNNEL FINAL DATA SHEET	5	-010-	.017-	-910-	.013-	-900.	<i>-</i> -		
TUNNEL FIL		.01	-10-	-10.	-10.	.01-1	. 4.31 . 1	Pilodi, grif	
ED WIND	αf	-10.	-10.	10.	-01-		B TA v	wa N	
LOW-SP!	٦		n	4	ຜູ້	<b>o</b>	er in le	L 5, 57	

W-SPEED	WIND	OW-SPEED WIND TUNNEL FINAL DATA SHEET	FINAL	DATA	SHEET	PB.1 Altr	STAB			HFF 343-9	I	7/05/52
-						MOMFET ARES	HI STAB	_	•	C-62	•	123.
D L	-	8		3	C <sub>0</sub>			ψ.	'n	ۍ		ئ
8	8.01	8.15	u 1 <b>4</b> 00	.445	.0479	0.	•046	4.01-	₹-10.4	.0127-,	-0200	.016-
	3.00	6.14		.446	.0457		150.	-00	-00.	-2100.	-6000	. 0.02
9	10.0	8.15		.445	.0465		.046	• 00		.0125	-0013-	610
7. 8	8.00	8.14		.445		- 4	•036	8.00	9.00	.0242	-0050-	1400
· 6	8.00	8.14		.457	*600°	*	•025	12.03	12.03	.0315	.003B	.075
	e wer	,		*			· · · · ·			••••		• • • •
		6							,-		- •	de a magi
	-		-			-						

Pr ar a CL :	MAL DAIA							
a <sub>f</sub>			MOMENT ANS STAB	9		30-0	-	120.
	J	c <sub>o</sub>	S C	W.	÷	, C,	. 73	Cc
16.03 16.30	-872	.1167	.127	4.01-	4.01-	-6600	-0074-	-021-
15.02 : 16.23	• 356	.1210	134	10.	• 01	-0000-	.0037	-000
16.03 15.29	.357	.1280	.128	4.00	4.00	.0107	0600	.015
16.03 16.30	.865	1377	- 1 H	8.01	8-01	.0231	-0117	•034
16.03 16.30	.870	.1440	.087	12.03	12.03	.0329	.0125	• 062
ulius teks, t				Share Principle	NAME OF STREET	19.0 vil. 19.0 v		A 44 A
all as as				****	OR THE	* AND .		
-					1 <b>971</b>		<b>Prod</b>	. 1 44

3	rocen www	THANK	CHEST ATAC LAND INVINIT COMM CREEK WAS		POPCE ANS STAB	, ,	= 100	III 343-0	111	7/06/62
	STEED WITH	I Chinci	FIRM DATA		MOMENT AXES STAB	m		31-0	•	120.
Z	ď	B	J <sub>2</sub>	CO	C B	ψ.	~	ی	3	ن
m	4.02-	4.09-	-192.	•0000	-920	GQ.	-00	-0011-	0000	2000
4	-10.	-10.	-010-	1520.	(A) (B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	000	-00-	-6000•	• 0003	-000·
<b>(1)</b>	4.00	4.06	.205	•0285	E009	00•	-00-	-6015-	.0001	200.
0	8.00	8.14	.447	•0420	•050	000	-00•	-0013-	-9000	• 203
-	16.00	15.27	• 856	.1215	135	• 00•	60.	-2000	• 0005	-205-
0	20.02	20.23	.879	. 2553	•084	00	000	-1900-	- 2005	-720-
0	16.01	16.27	.856	.1243	.135	• 20	000	-6000-	1000	-0000
00.11						es in Paul		12 . 62 . 63	* * * * * * * * * * * * * * * * * * *	

Pr of a c c c c c c c c c c c c c c c c c c	סבנט איואט	THANK	SINA! DATA	s	FONCE ARES STAB			0-C+C MM	1	7/05/62
α       C <sub>1</sub> C <sub>0</sub> C <sub>1</sub> <		LUNNEL	FINAL DAIR		2			32-0	•	129.
4.032460302 .07500 .000011000001 .0180234 .03700 .00000301 .0180295 .005 .00 .0000110003- 15.29 .888 .2517 .100 .00 .00 .00 .00 .00 .00 .00 .00 .0		σ	<u>د</u>	ဌ	E	ψ.	4	5	ζ,	် ပ
4.07 .205 .0234 .03700 .0000090005000600050006-	4.01-	4.09-	•	•	-075-	00.	-00	-1100	-0000	100 "
8.14 .442 .0295 .0051 .00 .0000110007- 15.29 .870 .1190 .135 .00 .0000050036- 20.29 .888 .2517 .100 .00 .00 .00	.01	.01	.018	no 1	-150.	00	000	-6000	-5000	100.
8.14 .442 .0456 .051 .00 .000012000?- 15.29 .870 .1190 .135 .00 .000050036- 20.29 .888 .2517 .100 .00 .00 .00 .00	4.01	4.07	.205	•0295	900-	00.	-00•	-0011-	· 000	100.
15.29 .870 .1190 .135 .00 .000036 .0036 .2517 .100 .00 .00 .00 .00 .00 .0036	8.01	8.14	. 442	•0456	II GO	00.	-00	.0012-	- 2000	lee.
.25.29	16.01	15.29	.870	.1190	.136	00.	000	-5000-	•0036	400
	20.02	20.29	. 888	.2517	• 100	60.	00.	• 0008	. 0.02	+037
	JPB 18			AND	d Teath		e de			,
					Life Id	I, II.	<b>u</b> e <b>y</b>		- 11 مر	

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3			, 4748 14W.		FORCE ATES STAB	9		161 343-0	HA4	7/06/62
7-1-5	reco win	U TOWNEL T	LOW-SPEED WIND TOWNER FINAL DATA SHEE	-	MOMENT AXES STAB			BUK 33-0	<b></b>	
ä	ď	!	ບ	ဌ	ے ت	4	4	,	75	ئى ئا دى
N	4.02-	4.09-	-246-	S 1379	-520.	00•	-00•	-1100	0000	100
້ຕິ	-05-	-05-	-610-	.0235	-037-	•00	000	.00100	-6000-	-000
4	4.00	4.05	197	.0291	500.	. CO•	-00-	-4100.	-2000	.002
ัก	8.01	8.14	.441	.0454	.030	00.	-00•	.0012-	-6000	- 005
້ ທີ່	16.91	16.27	.852	1295	.135	00.	00.	.0001	.0018	-005-
7	20.02	20.29	.878	.2584	680	00	000	-0021-	• 0021	-013-
u i		ا من ا					,	tropia.	9 <u>- 4</u>	*.c.
			,			,	- James	eral w	<b>*</b>	<b>VE-54</b>
							•	24		•

60 Cm We W Cm Ce	60 6m We W C <sub>n</sub> C <sub>r</sub>	61					S SITY DOGS	STAB		nn 343-0	<b>1774</b>	7/00/62
C1         C0         Cm         Wr         Wr         Cr         Cr<	C1       C0       Cm       Wr       Wr       Cm       Cr       Cr <th< th=""><th>61</th><th>2</th><th>NNEL FINAL</th><th>DAIA</th><th>,</th><th></th><th>TAB</th><th></th><th>Τ,</th><th>-</th><th>120.</th></th<>	61	2	NNEL FINAL	DAIA	,		TAB		Τ,	-	120.
2520306 .07701 .01 .00120036 .0210243 .03801 .01 .01 .00130004257 .0293 .005 .01 .01 .001200060009046 .0456 .051 .01 .01 .001500090556 .051 .01 .00 .001500070007000700070005	.2520306 .07701 .01 .00120036 .021 .021 .00543 .03801 .01 .01 .001300040295 .005 .01 .01 .001200060055 .01 .01 .0150009046 .0456 .051 .01 .01 .001500090556 .091 .01 .01 .0060000700070005	.2520306 .07701 .01 .00120036 .021 .0243 .03801 .01 .01 .00130004025 .027 .0295 .005 .01 .01 .00120006046 .0456 .051 .01 .01 .01500090556 .1247 .135 .00 .00 .00 .00070007000700070007000700050091	3	5	3	o J	ڻ	¢.	*	ڻ	73	C
0210243 .03801 .01 .00130004- .237 .0293 .005 .01 .01 .00120005- .446 .0456 .051 .01 .01 .00150009- .856 .1247 .135 .00 .00 .00070007-	-0210243 .03801 .01 .00120004- .207 .0295 .005 .01 .01 .00120005- .446 .0456 .051 .01 .01 .00150009- .856 .1247 .135 .00 .00 .00070007-	-0210243 .03801 .01 .00120004- .207 .0295 .005 .01 .01 .00120005- .446 .0456 .051 .01 .01 .00150009- .856 .1247 .135 .00 .00 .00070007-	4	-60-1	.252-	.0306	- 24 ~		10	-2100	9000.	.001
.237 .0295 .005 .01 .01 .00120005- .446 .0456 .051 .01 .01 .00150009- .856 .1247 .135 .00 .00 .00370007- .897 .2538 .091 .01 .01 .0060-: .0005	.237 .0295 .005 .01 .01 .00120005- .446 .0456 .051 .01 .01 .00150009- .856 .1247 .135 .00 .00 .00370007-	.257 .0295 .005 .01 .01 .001200050246 .051 .01 .01 .00150009056 .051 .01 .01 .00150007000700070007000700070007000500070005000		-05-	-021-	.0243	4-15		10.	-0100	-0000	. 001
.e56 .1247 .051 .01 .01 .00150009 .856 .1247 .135 .00 .00 .00070007-	.e56 .0456 .051 .01 .01 .00150009- .e56 .1247 .135 .00 .00 .00370007- .897 .2538 .091 .01 .01	.e56 .1247 .051 .01 .00150009	4	1.07	102*	• 0293	wa tri	. 14 gr	10.	-2100	•	• 001
.856 .1247 .135 .00 .00 .0037000700070050-: .0050-: .0005	.856 .1247 .135 .00 .00 .00370007- .897 .2538 .091 .01 .01 .00600005	.856 .1247 .135 .00 .00 .00370007- .897 .2538 .091 .01 .01 .00600005		m.	.446	+0456	·	e de la composición dela composición de la composición de la composición dela composición dela composición dela composición de la composición de la composición dela com	.00	-0015-	-6000	- 205
.8970538 .091 .01 .00 .0060-1 .0065		10° 2000° 20° 20° 20° 20° 20° 20° 20° 20°	16	26	•856	.1247	.135	101.00	00.	-2000	-1000	• 001-
	Plus Paris	Plus Samuel Andrews	20	0.30	.897	.2538		: .a   <del></del>	0.	-0900	:4	-024-

3	TOW CORED WIND TIMNES SHEET DATA CHEEN	THANKS	CIN: 41	474		PORCE ARES S.1	STAB		nm 343-0	E SA	7/06/62
		DIMINET	CINAL D	414		MOMENT AXES 'S	STAB	, .	35-0	•	120.
=	ď	B	j S		o <sub>3</sub>	C	4,	4	5	75	ပိ
N	4.02-	4.09-		245-	•0312	-970-	10	10.	-0100	•000•	.001
'n	-20.	-05-		-020-	•0246	.038-	0	0	-0100	-0005-	.001
ິທີ	4.00	4.06	e de Le al-	201	•0293	900•	000	100.	-6000	-9000	.001
0	8.01	8.15		447	•0464		6	10.	.0012-	-0011-	.002
~	16.01	16.27		643	.1284	•134	10.	10.	1000	-0017	-600
Ξ	20.02	50.29		878	.2603	• 290	.0.1	70.	-62400	.0032	-600
ar.yum	• • • •			Ž.			LONG A	n e san			
.erus		•	<u>.</u>	i.	, t*						,
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37 FEED WIND LUNNEL FINAL DAIR SHEEL STAB TAB TO STEED WIND LUNNEL FINAL DAIR SHEEL STAB TO S						FORCE ARTS STAB	Ю		1th 343-0	***	7/06/62
$\alpha_{\rm f}$ $\alpha$ $C_{\rm f}$ $C_{\rm f}$ $C_{\rm f}$ $C_{\rm f}$ $C_{\rm f}$ $C_{\rm f}$ $4.02$ $4.02$ $6.22$ $6.245$ $6.036$ <th>7</th> <th>PEED WIND</th> <th>IONNEL PINA</th> <th>IL DATA S</th> <th>8</th> <th></th> <th>8</th> <th></th> <th></th> <th></th> <th>120.</th>	7	PEED WIND	IONNEL PINA	IL DATA S	8		8				120.
4.02 4.092470312 .07701 .01 .00110000 4.02 4.08 .200 .0301 .006 .01 .01 .0013006- 8.00 8.13 .437 .0458 .052 .01 .01 .00110011- 16.00 16.26 .844 .1266 .134 .01 .01 .0001 .0022 20.01 20.27 .037 .2525 .092 .00 .00 .00350075-	T	αį	Ø	ů	င့် O	Š	W.	4	0	75	Ç
4.02	m"	4.02-	4.09-	-247-	-0312	277	.01	.01	-1100.	0000	000
4.02 4.08 .200 .0301 .006 .01 .01 .00130006- 8.00 8.13 .437 .0458 .052 .01 .01 .00110011- 16.00 16.26 .844 .1266 .134 .01 .01 .001 .0022 20.01 20.27 .837 .2525 .092 .00 .00 .00 .00350075-	4	-20.	-62-	-022-	.0245	.038-	.01	10.	.00100-	• 0000	• 000
8.00 B.13 .437 .0458 .052 .01 .01 .00110011- 16.00 16.26 .84 .1266 .134 .01 .01 .00 .01 .0001 .0022 .00 .00 .00 .00 .0035 .00 .00 .00 .00 .00 .00 .00 .00 .00 .0	ັທ້	4.02	4.08	•200	.0301	900.	.01	.01	.0013-	.0000-	• 005
16.00 16.26 .84 .1266 .134 .01 .01 .0001 .0022 20.01 20.27 .837 .25.25 .092 .00 .00 .00 .0035-	•	8.00	8.13	.437	.0453	.052	.01	•01	-0011-	-1100	.003
20.01 20.27 .837 .2525 .092 .00	7	16.00	16.26	. 800	.1266	134	.01	•01	.0001	.0022	-005-
	0	20.01	20.02	·837	.2525	.092	00.	00.	• 0083-	·0275-	-010.
		4	<b>*</b> ****			Name of the Control o		r∎ ur	T. 64		
	ಪ್ರತಿಗೆ ಪ	ઇ જાત		See		water	·. · a	<b>.</b> , 12	.de g		

The $\alpha_{\rm f}$ of	3		THANE				FORCE AAES	STAB			TEST 343-0		111	7/06/52
4.02- 4.092360307 .07601 .01 .00110017- .0000 .0230242 .03801 .01 .00120003- 4.00 4.06 .207 .0294 .007 .01 .01 .00110010- 8.00 8.13 .441 .0455 .051 .01 .01 .0002 .0013- 15.01 16.27 .851 .1216 .134 .01 .01 .0002 .0030 20.03 20.30 .868 .2519 .087 .00 .000079010-		-SPEED WIND	TOWNET	FINAL	DAIA	SHEET	MONTHY AS					•		120.
4.02- 4.092360307 .07601 .01 .001100170000 .0230242 .03801 .01 .00120003- 4.00 4.06 .207 .0294 .007 .01 .01 .00110010- 8.00 8.13 .441 .0455 .051 .01 .01 .0002 .0013- 15.01 16.27 .851 .1216 .134 .01 .00 .0000790108- 20.03 20.30 .868 .2519 .087 .00 .0000790108-	Z	αξ	B	L-231. B	7	ပ ပ		ر ا	4,	4	ٿ	3		2
4.00       4.00       -023-       -0242       -038-       -01       -01       -0012-       -00012-       -00011-       -0010-         8.00       8.13       -441       -0455       -051       -01       -01       -0011-       -0013-         15.01       16.27       -851       -1216       -134       -01       -01       -002       -0033-         20.03       20.03       20.03       -087       -00       -00-       -0079-       -0108-         -02-       -02-       -014-       -0242       -036-       -01       -01       -0010-	E	4.02-	4.09-	بعريد د	.236-	_	7.	-920.	10.	10.	-1100		7	-000
4.00 4.06 .207 .0294 .007 .01 .01 .01 .00110010- 8.00 8.13 .441 .0455 .051 .01 .01 .00110013- 15.01 16.27 .851 .1216 .134 .01 .01 .0002 .0033 20.03 20.30 .866 .2519 .087 .00 .0000790108- .02020203603601 .01 .00360010-	4	-00	• • •	, 164 4.7 <b>8</b> 71	.023-	•	8	-038-	.01	.0.	-0012-		-T	-100
8.00 8.13 .441 .0455 .051 .01 .01 .00110013- 15.01 16.27 .851 .1216 .134 .01 .01 .002 .0030 20.03 20.30 .866 .2519 .087 .00 .000075010802620342 .03601 .01 .00560010-	n		4.06		.207	520*	* ************************************	100.	.0.	.01	-0011-		<u> </u>	.001
16.01 16.27 .851 .1216 .134 .01 .01 .002 .0030 . 20.03 20.30 .868 .2519 .087 .00 .00 .00 .00750108-	•	2.34	8.13		.441	• 045	Si	150.	.0.	•	.0011-	•	- <u>;</u>	-002
20.03 20.30 .868 .2519 .087 .00 .0000790108-	7	16.01	16.27	har s	.851	121	9	134	.01	•01	-0005	.0030		-900
-02020140242 .03601 .01 .00060010-	8	n de división de la constanta d	20.30	days.	.868	.251	<b>ф</b>	100.	00.	-00•	-9C79-	ia. Section	T	-005
	0		, C2-	S F SALTI	-010-		ď	-036-	.00	•01	-9000	0100.	7	. 001

M	DEED WIND	THENE	INW COFFE WIND THUNE FINAL DATA CUEFT		STAS	n		343-0	i	70/00/1
Í		DIMINEL	TINAL DAIR SI		WOMEN ATES STAB	æ		98-0	-	120.
٤	₽ ۵ ع	8	J C	ပ	ق	ψ,	À	<b>.</b>	C. 1	, Ci
N	4.02-	4.03-	.053-	.0325	-127-	10.	10.	.0012-	.0002-	000•
'n	00.	• 68	.187	•0374	-160.	.0.	5.	-1100	* 2000*	-001-
**	4.00	4.13	.435	.0541	-980-	.0	5	-6000-	-2100	.001
ĵ,	8.00	8.21	.691	9080.	-610-		5	-6000	-0100-	.001
•	12.00	12.29	600	.1263	.021	•	.00	-5000	-1200	• 005
, , , , , , , , , , , , , , , , , , ,	16.01	15.36	100	.1941	.063	. 10.	10.	-0000	.0043	-800
0	18.00	18.35	1 - 1 36	.2536	• 065	.00	00.	.0027	5010.	-016-
	20,00	20.23	4900	90EC.	610.		10.	-0072-	-1200-	1800

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					roct ans STAB			.nd 343-0	No.	- 7/06/62
	LOW-SPEED WIND JUNNEL FINAL DAIA SHEET	UNNEL FIN	AL DAIA		MOMENT ARES STAB	Ø		39-0	•	120.
٦	ď	δ	ر ر	ဌာ	Cm	$\psi_{\mathbf{f}}$	<i>ψ</i>	5	3	ပ
12	-00-	3.96-5	.145	9850	-186-	00	-00	-0011-	-0012-	.001
13	-05-	.10	.383	.0710	- 100	0	-000	-1000	-0100-	100
4	0.4	4.20	*10.	1140.	1	00	-00-	-2000	-0017-	.00
15	8.01	8.28	.673	1377	-072-	000	-00•	-1000-	-0035-	200.
16	12.00	12.35	1.125	1916	-038-	00.	-00•	₩000	-0000-	•00•
17	16.01	16.43	1.349	.2891	-500-	00	000	.0003	.001B	-900-
0	18.01	18.43	1.336	.3576	-000	0	co.	-6000•	.0208	.029-
20	20.02	20.40	1.237	4362	-047-	00	600	-00041-	-0035-	-023-

					PORCE ARTS	STAB	ŭ,	•	nn 343-0	ā	7/06/62
Š	LOW-SPEED WIND TUNNEL FINAL DATA SHEET	TOWNEL FIN	IAL DATA	SHEET	MOMENT ANES	ts STAB		•	1-04	-	120.
=	s <sub>o</sub>	B	J J	g S		۔ ٿ	ę,	÷	ີ. ບໍ	, <b>7</b>	ن
12	4.02-	3.97-	.185	-0705	. 50	-1961	90.	-00.	•0013-	+000	000
n	.05-;	-	.426	.0843		-651	00.	-00-	-9000	-0013-	100.
4	4.02	4.22	.662	.1103	1 50	-811.	00	-00-	-6000	.0013-	. 000
6	8.00	8.29	933	.1550	20 1	-083-	00.	-00•	-6000	-6200	-005
0	12.00	12.37	. 1.179	.2157	57	-640-	00.	-00	-0000	-9500.	. 003
~	16.00	16.43	1.391	.3105	. 90	-014-	00.	-00•	•0013	1600.	000
0	18.00	18.44	1.399	.423		-920•	00	00.	. 3000e	-0045-	-005-
0	20.04	20.44	1.277		7	-040-	00+	0	.0001	.0003	.032-
									-		

90	DAW COEEN WIND THUNG CHAIL DATA CUEST	THUNE	CINIA	ATAR	tains	FORCE ALES	STAB		=	343-0	PATE	7/05/62
	CEO MINO	TOWNEY.		AIAO	SHEET	BOMINT ARES	STAB		•	41-0	•	120.
3	αľ	B		c <sup>r</sup>	S	į	E	4.	e.	ڻ	75	ပိ
23	4.03-	4.10-		-252-	9160.	9	.075-	00	-00-	.0013-1	-6000	103
'n	-00	00.		-020-	.0243	 	.036-	00	-00.	-1100	-9020	000.
4	4.02	4.08		199	•0293		.007	8	-00.	-0014-	-9000	.001
S	8.00	8.13	ın.	439	•0458	. 83	.052	00.	-000	.0011-	-6000	<b>200.</b>
· 0	12.01	12.22		199	•0725	·	960•	00.	-000	-50000	-0011-	100.
7	16.01	16.23		.879	. 1187	~F#	136	00.	. co.	6000.	£003 ·	-005-
<b>*</b> 0'	18.00	18.29		.927	.1748	8	.138	00.		. 7000.	• 0044	-012-
o	20.01	20.28		.885	•2524		101	00	00.	-00062-	-1010	.005

Runs 42 to 44, inclusive, no force and moment data were recorded.

3	CDEED WING	THUNKS C	FIND ALAC IAND CHAIL CHIW CEED WO		PORCE AIRS STAB			na 343-0	211	7/06/6E
	orteo mini	T TOWNER L	MAL DAIA	שננו	MOMENT ATES STAB	<b>3</b>		PWN 45-0	•	140.
٦	ď	σ	ر د	CO CO	ۍ ت	Ų,	A.	C <sub>n</sub>	75	ပိ
N	-00	4.07-	-255-	.0327	-070-	.01	-10-	-0000	-2000	000
4	-00	000	-120.	.0261	-045-	-10.	.03-	-0002	.0011-	.000
W.	4.03	4.09	.204	.0322	-000	-010	-10.	-0000	.00100-	100.
•	9.00	9.13	.442	.0475	.040	6.	-10-	-0000	-2000	. 000
0	16.02	16.26	.852	.1246	.121	-10.	-10.	-0005	. 6500.	-900
0	18.02	18.30	.508	.1767	. 123	-01-	-10.	.0010	.0043	• C38-
-	20.02	20.28	.849	.2576	.070	-10.	.01-	-68CC	.00:00	4.00
		automit.			i. Edirica	V = d1	T ***	. <b>14. (19)</b>	7% BW.	at pres

3	PEED WIND	LOW-SPEED WIND TUNNEL FINAL DATA SHEET	L DATA S		**************************************	9 9		0-645 mm	<b>i</b> -	120.
-	, io	a	3	S		W.	ş	6	75	၁၅
2	4.03-	4.10-	-152.	1160.	-9200	-20	·-20•	-0000-	- 6017	-000
-4-	-00	60.	-320	.0242	-070	-10.	-10.	٠٥٥٥١-:	-6000	-COO.
3	00.	\$0.	-205	•020	•00•	.01	-10.	-0005-	-0011-	1000
70	8.02	9-16	.449	•0459	1 .047	-10.	. 01	• COOS-	-0130-	.00.
	16.00	16.27	.862	1721.	.128	0.1	.01	-0000	.0243	-906•
œ'	10.01	18.29	806.	.1778	.127	-01-	700	· 0000	.0043	-010-
ō	20.01	20,27	. BE4	.2533	.07	01-	70.	-58CO.	.0003-	-010-

3	DEED WIND	THE STATE STATE STATE STATE STATES	2 474		STAB		:	nn 343-0	2170	7/06/62
		ID IONNEL FINAL	IL DAIA S	-	MONERT ARES STAB			0-44	•	120.
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رنه	4.02	4.09-	.253-	.0293	-075-	0.	.02-	-9000	-0000	100
<b>m</b>	000	. 00.	.021-	.0229	-038-	.03-	-60	-6000	-9000-	-100.
<b>*</b>	A.03	4.09	.298	9620	900	.05-	-20-	-0000	-0100.	.001
0	7.99	8.13	.448	.0450	. 650	-20-		-9000	-0100-	.001
	16.01	16.28	958	.1258	.130	.02-	.03-	-0002	! i	-500
œ.	19.02	19.30	906.	.1782	. 128	.02-	.03-	.0003	. 0045	-600
•	20.02	20.25	. 655	-2534	. 080	.02-	.02-	-6800-	. 0318	-01M-
						TARK			<b></b>	-

74  4.02  4.09  242  0302  076  022  022  002  005  005  005  002  005	3	DEFEN WIND	Thinks			_	STAB			343-0	1	1/06/62
4.02- 4.092420302 .0760202020202020202	Ę	MIND WIND		Ž	MIN	•		6		48-0	-	120.
4.02- 4.09-1 .2420302 .0760202- 4.01 4.07 .210 .0293 .005 .0202- 4.02 4.08 .209 .0287 .006 .01- 5.02 8.18 .209 .0287 .006 .01- 16.00 16.27 .860 .1210 .132 .01- 18.00 19.29 .909 .1731 .131 .01- 20.02 20.29 .080 .2574 .00101-	2	ď	8		ני	Co	ت	, ,	*	3	3	ပ
4.02 4.08 .209 .0293 .005 .0202020202020202-	66	4.02-	-60.		.242-	.0302	-940.	.02-	-20.	-5000*	1 50000	-002
4.02 4.08 .209 .0287 .006 .0101- 4.02 4.08 .206 .0287 .006 .0101- 5.02 8.13 .443 .0450 .050 .0202- 16.00 16.27 .860 .1210 .132 .0101- 18.00 19.28 .909 .1751 .131 .0101- 20.02 20.29 .890 .7574 .343	8	10.4	4.07		1012.	.0293	500.	-20.	-05-	-0000	-0000	.003
4.02 4.08 .209 .0287 .006 .0101- 5.02 4.08 .206 .0287 .006 .0101- 16.00 16.27 .443 .0450 .050 .0202- 16.00 18.29 .909 .1751 .131 .0101- 20.02 20.29 .880 .2574 .033	30:	-00.	00.		-910-	.0232	-037-	.05-	-05-	-0000-	-6000	.001
5.02 8.15 .443 .0450 .050 .0202- 16.00 16.27 .460 .1210 .132 .01- 18.00 19.29 .909 .1731 .0101- 20.02 20.29 .880 .2574 .049 .01-	'n	. 20.	4.08		602.	.0287	900.	-10.	3-10·	-5000	-8000	-000
5.02 8.13 .443 .0450 .050 .0202- 16.00 16.27 .460 .1210 .132 .01- 18.00 19.29 .909 .1731 .131 .01- 20.02 20.29 .880 .2574 .01-	4	4.02	4.08		.206	.0287	900.	-10.	-10.	-6000	-2000	- 002
16.00 16.27 .860 .1210 .132 .0101- 18.00 19.28 .909 .1751 .131 .0101- 20.02 20.29 .890 .757• .043 .01-	32	9.02	8.13		.443	.0450	050	20.	-62	-0003-	-0100.	.002
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3	UN-SPEED WINE	J <sub>D</sub>	10.6	8.01	8.01	8.01	3.01	
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3				•	ME STAB	91		10-Coc 101	E T	7/06/52
ς. Β (1)	FEED WIN	D LONNEL	OW-SPEED WIND IONNEL FINAL DAIA SHE	<del>.</del>	MOMENT BEES STAR			0-05 ma	-	15.0
ے	<b>a</b>	α	ن	ဌ	ڻ	<b>6</b>	3		3	 ວ
i,	2, 16.01	16.44	1.332	5018	-016-	4.01-	4.01-	8700.	-6900	-520.
۳,	16.01	16.44	1.338	.2993	-600	-00	-00.	.0000	.0023-	100.
4	15.01	15.44	1.361	.2935	.013-	0.0.€	000 • ♦	.3075	. 0045	. 629
'n	16.01	15.44	1.334	3036	-050-	6.03	8.01	.0171	.0102	. 550.
f:	15.01	15.43	1.349	.3313	-090	12.02	12.02	.0307	• 0250	130
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						JHY Desi	STAB	. 50		107 343-0		8/17/62
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	-00-	• 00		-600	•0255		.042-1	10.4	10.4	.0126	-0051-	.018
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$\alpha_{\rm f}$ $\alpha$ $\alpha$ $\alpha_{\rm f}$ $\alpha_{\rm f$	97		THAME				HONCE ANTE STAB	9	•	343-0		8/17/62
6.02 8.16 .452 .0483 .043 4.03- 4.03011500050465 .048 .020202000300080452 .0465 .048 .0202020003000802 8.02 8.16 .454 .0506 .034 8.01 8.01 .0217 .00260202 8.16 .458 .0511 .023 12.02 12.02 .0284 .0044-	- A- O	CONTACTOR AND	10MMCL		4 a						-	120.
8.02 8.16452 .0463 .043 4.03- 4.0301150005- 8.02 8.16453 .0476 .045 4.02 4.02 .0133 .0008- 8.02 8.16454 .0506 .034 8.01 8.01 .0217 .0026- 8.02 8.16458 .0511 .023 12.02 12.02 .0284 .0044-	I	. (			C	င္	5	4	*	5	75	Ç
6.01       8.15       .452       .0465       .02-       .02-       .02-       .0003-       .0001-         8.02       8.16       .453       .0476       .045       4.02       4.02       .0133       .0008-         8.02       8.16       .454       .0506       .034       8.01       8.01       .0217       .0026-         8.02       8.16       .458       .0511       .023       12.02       12.02       .0284       .0044-	2	8.00	8.14		.452	.0483	.003	4.03-	4.03-	-9110-	-5000	.018
8.02 8.164530476045 4.02 4.0201330008- 8.02 8.164540506034 . 8.01 8.0102170026- 8.02 8.164580511023 12.02 12.0202840044-	, ų	8.01	8.15		.452	.0465	.048	-20-	-05-	.0003-	-1000	.002
8.02	•	8.02	8.16	"	.453	.0476	.045	4.02	4.02	.0133	-8000	•10.
8.02 8.16 .0284 .0231 12.02 12.02 .0284 .0044-	~	8.02	8.16	•	•454	•0506	•03	8.01	6.01	.0217	-9200	.043
	<b>6</b>	8.02	8.16	!	.458	.0511	.023	12.02	2.02	.0284	-0004	.077
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OW.S	OW. SPEED WIND THEMSE SMAD DATA CHE	THEME	EMA	PATA	כחנני	73ES 43ES	III STAB			NS 343-0	144	8/17/62
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8	16.02	16.29	• 12	.871	.1243	53	.128	4.01	4.01-	-0083-	-0054-	•023-
C	16.02	16.29		.865	.1223	23	.133	-00•	-00-	.0001	-0003-	000•
1	16.02	16.28		.856	6611.	66	.128	4.02	4.02	.0102	.0051	.020
'n	16.02	16.29		•862	.1256	26	-114	8.02	8.02	. 0211	.0084	.042
<b>o</b> `	16.02	16.29	•	.870	.1325		060	12.01	12.01	.0301	9600	. 067
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						MEKT AUTT	STAB		E H	34340	<b>F</b>	7/05/62
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	100	°°°		ı oʻoʻ	7:50	-090	- B 05-		9.02-	0110	G019-	-201.
	-00·	00.		-100.	.0237	-650.	- 6.02-		6.02-	. 0800.	.0003-	277-
	.00.	•		-900.	0257	-1470	110.4		<b>↓</b> •01−	. 6000	-4000	-670.
	-00.	. oc.		£00.	.0269	•	2		2.00-	• 0016	.0007-	.37.3-
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1000	I ONY COCED WIND THENES	TOWNER	CONAL DATA CUE		HER AND STAB	•	•	. nn 343-9		7/06/62
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	a <sub>k</sub>	B	C	Co	Cm	V.	3	3	75	1 2 3 1
c:	15.01	16.29	000	.1177	.032	6.02-	9.02-	. 51.73	.0032-	103-
` <b>r</b> ^	16.02	16.23	• 963	.1180	.105	6.01-	6.01	.0133	-2700.	-27c-
13.	16.02	16.27	. 395.	.1220	.193	6.02-	6.07-	-010·	.3045-	.073-
ان	15.02	16.27	.865	.1179	611.	4.02-	4.02-	. 6700.	1-0500·	-750.
) -	10.02	16.20	.851	. 1277	9::0	4.01-	A.01-	.0373	-0900	-6.70
۳. 	16.02	15.25	158.	.1250	127	2.05m	2-05-1	. 0052	1003	.02.4-
K. *	15.02	15.29	-947	· 1309	. 124 ·	2.01-	2.01-	, 6200.	.0003-	.027
`S.	10.61	15.27	.845	.1276	641.	-20.	.05-	.6011	.0027	.003-
· •	15.02	15.25	.843	.1271	.125	2.00	2.50	-2260	6000	0.51
• es	18.02	16.23	.843	.1281	.113	••01	10.0	·-9000.	9900	5,00
6	15.02	15.28	. 94	9021.	ro!	16.0	10.9	6900	97.00	<b>c</b> 9c•
· · ·	15.32	15.28	0.36.	•1306 i	060.	8.32	8.32	.0104-	• 000 •	* 50° ·
<u></u>	16.02	16.24	163.		090°	10.35	10.03	-50100	1800	62.7
7	16.72	16.29	996.	1371	C2C.	12.01	12.01	-8020	. 2000.	10.
p . 191			<b>~</b>		<b>**</b> **********************************			•••••		<b></b>
-4										

3		Timeral	ATAC SECTO WIND TRIVING COMM.		PHECH ARTS STAB	91	•	101 343-0	1	7/05/42
	TELD WIND		TIMAL DAIA	אננו	POSTER STAB		1.2	0-50	•	• 0 ! :
Σ	ď	8	C	င်	ۍ	, , , , , , , , , , , , , , , , , , ,	•	<u>.</u> ت	3	3
C1	3.01	81.5	3.2	C-70.	1.00	KO 0	2.05-	0110	-1000	1-1c1.
'n.		3.15	677.	0.70.	. 027	0.01-	6.31-	. 5050	.0325-	-076-
 <b>9</b> .	S. 52.	3.16	842.	10:0.	. 255.	4.01-	4.01-	. 5250	. 5523-	-6:0.
3	3.01	3 ( • 5	777.	65	.04:	()	Ŋ	. 2773	: 100	
~	8.01	A-13	7.44.	0070·	0.70	-cc•	.00.	.000.	-2000	000
r)	3.0°6	3.13	.43:	00.0	. 240	2.00	2.03	-6100.	·	1 220.
	9.71	3.15	.437	. 1690	.037	4.02	.050.	-2500.	1002	620.
	. 10°0	3.14	37.0		. G.C.	6.02	6.02	.0503.	÷ 5000.	.53.
c	3.01	.4.15	£ 1. 5 .			0.02	8.02	.0072-	**************************************	
_	3.0:	d•15		65%	: 500.	10.01	10.01	-0100	. 2000.	.154
	3.0.5	5.15	107.	. 34.355	-500-	12.00	12.00	01.10	. (()):	. 0.1.
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Ž	IOW. SPEED WIND TIMNEL EINAL DATA SHEET	TIMME	EMAI DATA	כאננו	-	STAB		:	MM 343-6	1	7/00/62
					MONTH ARS	II STAB	•		0-19 mm	•	1.73
E	ä	ø	Ü	o C		E	7	4	ئ	3	0
<b>2</b> 3;	6.03-	8.18-	-00.	-1 .0554	54	-111-	-00	00.	1000	-9000	-100
25	4.0.3-	4.11-	-2555-	.0345		- 180·	-00.	00.	5000	-0000	-100.
27		-05-	-920-	7870·	er den.	.043-	2-00.	-00	-2000	-E100.	500·
27,	4.01	4.17	961.	C&FC.	• [	.001	00.	00.	1 1000	-2100.	-100.
33.	3.02	9.15	.433	.0311	! ! • ~ ·	.045	-000	000		0100.	-100
7	12.01	12.21	134.	3/40.	ا اد	260.	-00	-00-	-5000	-0000	400.
39,	14.02	14.25	£44.	.0943	<b></b>	.114	000	-00.		-9260.	. 225
-	16.02	16.23	716.	1307	٠ •	.130	100.		-6000	. 2015	-100.
4	13.01	15.25	566.			.13%	-00	. CC.	-0000-	\$2000	-200
4	20.02	20.39	350	27.55.		.093	-00	• 00•	-2700.	5000	- 200 -
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17.00	3		710005			SALA IDAM	SYAB			343-0	1	7/05/62
a.c1         c.c.         c.c. <th< th=""><th>5</th><th>LEED WIND</th><th>10MKL</th><th>FIRAL DATA</th><th></th><th>121404</th><th></th><th></th><th>•</th><th>_</th><th></th><th>100</th></th<>	5	LEED WIND	10MKL	FIRAL DATA		121404			•	_		100
8.01 - 3.154840538       .111000000 .         4.034112440238       .1110000 .         .00012400286       .0430000 .         .00010340286       .0430000 .         9.0202020020 .       .02000 .         15.03 - 127238042000000000 .       .000000 .         15.00 - 14.20000000000000 .       .000000 .         15.00 - 14.20000000000000 .       .000000 .         15.000200000000000000000000 .       .0000000000000 .         15.00020202030303000000000000000000 .       .0000000000000000000 .         15.00020303030303030300 -	Σ.	ď	٥	ٽ	့် ၁	,	E	3	*	<u>ئ</u>	7	ر ن
4.03 4.11-, .27.60751 .08000000 .0002 .0007- .00 .0110340286 .04300000007 .0007- 4.02 4.06 .157 .0336 .003 .00300 .0000 .0009- 10.03 12.27 .009 .047 .00000000- 14.00 14.84 .771 .0916 .114 .0000000005 .0026- 15.02 16.23 .859 .1727 .134 .01010015 .0043 20.03 20.30 .867 .2501 .007 .010100250036	٠. م	8.01-	3.15		l land	3.8	.111	-0C	-00-	1000	-5000	000
6.00       -0.01       -0.053       -0.043       -0.00 <t< td=""><td>\$</td><td>4.03-</td><td>A . 1 ? -</td><td></td><td>•</td><td>51 ;</td><td>uev.</td><td>-00.</td><td>.00.</td><td>. 60:02</td><td>- 2000</td><td>100.</td></t<>	\$	4.03-	A . 1 ? -		•	51 ;	uev.	-00.	.00.	. 60:02	- 2000	100.
\$-52   4.066   .157   .5336   .507   .007   .005   .00000   .0000   .0000   .0000   .0000   .00000   .00000   .00000   .00000   .00000   .0000		000			•	3 98	.043-	-00	-00	. 0300		0000
9.02       2.15       .437       .049       .049       .09-       .090       .0000       .0000       .0000       .0000       .0000		4.02	4.05	1510			. FOC.	-00.	ov•	\$000°	-6000	-200.
15.03 12.27	5.	3.02	Q € €	6579	0		. 000·	-66.	. CO.	0000	-6000.	-600
15.50	17	15.33	12.22	7000	•		. 660.	-00.	.00-	. 2000	• (1011-	
13.02 16.23 .859 .1220 .134 .010101000000000101	c	12.30	16.74	177.	•	0	-114	-00.	-00.	. 2000	.0020-	. 500
13.02 19.30 .803 .1727 .13c .01010015 .0043 .20.01 .010100250008	23.		16.20	683.		. 02	. 133	170.	-10.	. ccc.	-9000	-6.0.
20.03 20.30 . HAT 2501		13.02	19.30	308	.17.	27 .	130	0.	.51-	\$100.	6,000	TECC.
	6.1 f_	20.03	20.30	F. C. P.	•	;;	.037	-10.	-1e.	.0325-	. 30°0°	-::0.
		• 4			• •	110	B 40° 11°		₽ <b>\$</b> too	•	•	•
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3	COW CORED WIND THUNE FINAL DATA SHEET	TINNEL	ATAC IAM		POELS AMS STAB			WW 343-0	E 18	7706/52
	on the	- OWNER T	AND THE		MOMENT AND STARS	<b>s</b> ŋ		0-69 m	•	120.
	ď	۵	C <sub>L</sub>	Co	C B	ψ	4	2	3	3
7	9.02-	5-17-	-657.	6950*	-111-	.−Iυ•	-10.	-6000	-4500.	100
0	4.03-	4 - 1 1 -	-264-	.0360	-620	110.	-10.	-0160	.0037-	ccc.
7	0	00.	-920-	6620.	-040-	-10.	-10.	-4100.	-CEUDO.	.003
	4.02	4.07	.183	9560.	<b>600</b>	3.	10.	- 0000 ·	-0267	300°
້ທີ່	8.02	3.13	.423	.0519	040	.01	-10.	-6000	-3250	.003
7	12.01	12.21	.653	. 7770.	*995		-1C.	• 0004-	-5965-	<b>9</b> 00.
<u>.</u>	14.03	10.20	757.	5460.	-114		10.	-KOGO.		900
2	15.02	15.28	.833	.1218	*132	110	.01-	1 2000	.0012-	-100
23	13.01	13.29	548°	1758	.132	-10.	-10.	2100	-8000	400.
S	20.03	20.29	146.	.2436	.034	-10.	5,	-c100.	\$000°	-C10.
	er vard					<b>10</b> 10,10.	Egeliya.		-	## 
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45					1	FORT AND	STAB	9	Ţ.	7 PER 313-0	2	1/05/62
-		D IUMMEL PRIMAL DATA SHEE	Ĭ	DAIA	- H	MOPINE ALES	ST		,	CI-DE MAN		120•
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6	8.02-	9.17-		-165.		0750	.156-	•	-10.	-6010	-G360•	-212
ď	-50.	4.09		. 25.4-	•	, 0.50	-cec.	110.	3	-3010E ·	.6200	\$47°
-	.020	-20-		-070	•	9070	.045	113.	-10.	.00+2-	.0345-	. DIG.
0	4.02	4.06	• • •	. 2113	٠	3555	-500.	-10.	-10.	-2010-	-7850	.015
11.0	8.01	3.15		640	•	6.630	.032	-10.	.01-	. 0000	-1760.	010
	12.00	12.21		263	•	. 7833	; 620.	1		£ £200*	-0925·	
	16.91	16.33		Les.	•	1492	.118	-10.	-10.	.0073	.0343-	212
-	18.01	18.31		45c.	•	1538	621.	-10.	7.00	9600.	1-9050.	600.
6;	20.02	20.00		. 303	<u>.</u>	2697	.076	-10.	.01	0260	-C.::0	90.
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3	DW.COCED WAS TIMMED ENIAL DATA CUE	TURNICLER	NA! DATA C		STAB			10-C3C 100	į	1736/6
	The same		NAL BAIL		BORNET STAB	JE .		C-12 m	•	150.
3	l <sub>D</sub>	Ø	Cl	Co	<b>"</b>	e.	*	5	3	3
ð	3-03-	9.19-	-060	2690	-601	-10.	-10-	-2000	i-\$750.	.014
30	4.02-	-0	.256	.0466	-640	-10.	- 10.	-1000	-0220-	110
· ·	-03-	-20-	-510.	.038d	-044-	-10.	-10.	-2200.	-2520.	
0	4.02	4.00	-214	1770.	:-000	.010.	-10.	-c1cc.	-1920.	113
13	8.00	9.14	404	1050-	170.	-10	10.	1000	-6750-	.313
Š	12.02	12.23	CC9.	9680.	190.		-10.	.0025	-1520	9:5
17	16.91	16.20	Cha.	1376	20.00	-10.	-10-	40000	-8260.	£15.
121	18.02	16.31	98ć.	.1762	ñ	-10.	1-10-	.0384	C305-1	8000
23	20.03	20.30	.693	-2509	000	10.	-10-	2000	-0365-	י חטטי
							p	7 62 <b>43-44</b>		<b>₩</b>
		•					***	## 34. <b>#</b> #		
							14 July 1			

						MACE AND STAB	AG	•	Nut 343-0		7/26/62
		LOW-SPEED WIND LUNNEL THAL DATA SHE	1	CAIAU	=	STAB	<b>A</b> 8		G-21 M	-	120.
_	Q.	8		C	S	<b>.</b>	W.	*	5	Ç,	ت ن
	B. 50 .	7.36		.472	7540.	0110	-10.	10.	-65.00°	-0650.	700.
	-00-7	-4.0.4	-7	.234-	.0394	-070.	0.	-10.	-000a	-01310	£600.
•	.02-	.75-	į.	-1110	7450.	-980.		-10.	-0200	-0110	. B3C.
•	4.01	4.07	-	.215	TALC.	***	10.	-10.	. 2008:-	-92130	700.
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٥	4.31	5.16	.560	-0707	-190-	-32	• <u>5</u> 2	6000	-2000	.03E-
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₹.	IW-SPEED WIND TUNNEL FINAL DATA SHEET	TOWER .	MA	DATA S	HEET	mented ARES	STAS	,		0-06		120.
1	ů,	8		Ü	S	3		W.	<b>3</b>	<b>.</b>	3	ů
+=	1-35-7	4.09	_	-823-	31 tC.		- 960	-02	-05	1000	-0100-	0000
7	000			.027	A250.	40	115-	20.	20.	)	-0100	200
o	4.02	4-10		.277	.0442	e a sum	133-	.02	70.	. 6013	-9000-	1 400
	8.00	9.17	•	.547	•0656	36	-192-	.32	20.	.0010	-00100	.003-
1	12.02	12.20		787	1000	00	164-	*C2	50.	0000	• 3326→	-0.50
7	16.02	16.33		£56°	· • • • • • • • • • • • • • • • • • • •	:538	1734	00.	50.	0100	- 2014-	.003-
1	19.02	18.35	nroužska)	1.063	9661	96	183-	-32	-02	6000	.0250	•325-
2	30.01	20.33		1.046	1573.	75	-205-	-03	• 32	-6250-	.5521	-007-

645- 02 02 0030 0027- 036- 02 02 0030 0027- 045- 02 02 002 0030 047- 02 02 02 0030 091- 02 02 0003 0025- 098- 02 02 0003 0025- 136- 01 01 01	LOW-SPEED WIND TUNNEL FINAL DATA SHEET					TA 1240	STAG STAG	9 9		Net 343-0	ī -	7/06/62
.04502 .02 .0030 .0627- .05602 .02 .0020 .0627- .06502 .02 .0021 .0016- .09102 .02 .003 .0025- .09802 .02 .0003 .0025- .09802 .02 .0003 .0025-	ο <sub>3</sub> το το πο	3	3	J J	S	!_	5	1	*	ۍ	3	່ວ
.05602 .02 .002 .002706502 .02 .02 .0021 .07702 .02 .02 .0003 .002509102 .02 .02 .0003 .002509902 .02 .02 .02 .021613601 .01 .011	4.02- 4.09-	4.09-	.250			7			-05	1.000	-0C30-	.c15-
.06502 .02 .000: .0016- .09102 .02 .0003 .00255- .09902 .08 .0003 .00255- .09901 .01 .011	.01	.00-			50.	90	:	-	20.	. 6666.	· 0027-	-620.
.077-, .02 .02 .0000 .0016- .091-, .02 .02 .0003 .0023- .099-, .02 .02 .0003 .0023- .099-, .01 .01 .011	4.62 4.09 .2500340	4.09	. 250	un en	03	9	a: 111		• 05	: :700-	. 6016-	-929•
.09102 .02 .003 .0025- .09302 .02 .00.0 .0016- .0401 .01 .00170014	60.02 6.17 .50405	. 0.17	. DO4	i.nan	.05	5			. 50.	. 2000	. 6016-	-200-
.39902 .02 .02 .000 .001e-i	12.03 12.27; .765 .02	12.27765	.765		30.	7	ļ.,		25	10000	. 6523-	1700
.:04- .:04- .:01 .:01 .:01 .:01 .:01 .:01 .:01 .:01	10.03 10.33 .970 1.14	16.33	• 970	e Ser i.in.	• 14	. <del>.</del>	•	8	80.		-00100-	C:0•
-136520205370534	193 18-02 13-54 1-035 1-18	13,34   1.033	1.033		<b>3</b>	1001	•		10.		• • • • • • • • • • • • • • • • • • • •	-100
	21 20-01 20-53 1-027 25		- 0 S S S S S S S S S S S S S S S S S S	espherus i	100 -	1.	,		75	.0037-	• 505.	-510.

**C**.

2			ANY COURT WIND THANKS CHAST CHAST	CONVE	2 4 4 6	•	PART LITE STAS	Įū,		TEN 343-0	1	7706/52
					4	MILES I	MOMENT ARE STAS	<b>A</b> G		101-6	-	120.
T.	ag.	rug vent	B	<u>ت</u>		o C	E C	ψ,	'n	9	75	J.
t September 1	4	4.01-	4.69-	7.3AF-18	-192	\$650.	-500-	•03	20	5400°	-2503-	0000
'4 <i>'</i>	****	140.	-10-		C19-	96.20.	-010-	£0.	(F)	0700	-1603.	-000
ared.	7	4.02	4.03		228	. : 3363	-920-	50.	E3.	.503.	-0051-	-300-
	S. 32	32	ċ.17	COPUNE	490	. 0545	-0.036-	.03	EC.	£000.	-CC15-	000
-	12.03		12.24		733	\$55C*	-040-	£0.	60	2000	C003-	. 600
1	3 16-01	tinke pi	16.31	4 1.517	965.	1358	- 0.00	.03	F) 0	1100+	-6018-	000
# 1 	15 18.00	C C	13.32		.020	•1804	-062-	20.	12	.0511	90000	-900·
19	20.02	52	20-33	1.0	1.003	-2479	-396-	60	•03	-0200-	•0528	.010-

Ì					men den STAD		•	343-0		7/00/62
	ALLE MARC	LOW-NAME WAND TOWNEL PINAL DATA ME.	L DAIA X		seems and STAS		Ļ	C-701		120.
E	ıπ	8	ر د	Co	C,	ψε	W.	<b>°</b> 3	75	) )
a	4.027	1.1.	F115.	.3437	160	1 000	00.	SECO.	-6120	-510.
7	8	(10.	-190	.0325	.678.	600	90.	20000	-5203-	-600
a	4.03	4.08	-162	•0356	.067	000	00.	3500°	-90000	-001-
Ξ	20.02	9.16	.446	.0504	.058	200.	.00.	6000	-300C-	-005-
15	12,02	12.23	C59.	9610.	746.	000	00.	-1330	-5000	- 100
17	16.03	.16.31	.616.	.1287-	040	00.	000	€0C0•.	-6000-	700
32	10.00	18-30	616.	10.74	•033	03.	00.	00100	. 0015	.000
21	20.02	20-32	1960	-2407	-010-	00	000	-9200	0018	-013-

3	COCCO NAME	The state of	CHANGE CONTRACTOR	,	PORTE STAB	7		0-E+5. 134	1	7/06/62
	- TT TT A	Tannor m	DOW-STEEL WHITE FORMEL PRINT, DATA STREET		HOWEIT ARES STAL	9		103-6	•	126.
2	ď	α	C <sub>L</sub>	ပီ	 ق	4.	a a	ڻ	3	· ·
S.	-10*7	-10.0	-110	8040.	-050-	2.01	£.51	-1010-	-0011-	100
<b>N</b>	-63-	50.	.25.	عزدن.	1 800	0000	9.30	-0110-	1200.	-112
~	4.60	4.16	.537	05700	-094-	3.5	6.31	-0137-	-0036	1117
13	6.01	8.26	.dis	-1110	-860.	0.01	10.0	.32:7-	,0043	122
S	12.02	12.35	1.075	.1546	-001.	0.01	10.00	-0470	6200	.128
1	16.01	16.41	1.233.	B522.	-160.	6.02	5.00	- 3261-	4110	.127
2	19.01	13042	1.312	.3296	-666.	10.0	6.01.	-1020-	.0314	£60.
25	20.02	20.43	1.363	\$C15.	-101-	8.31	8-01	-25547	.0429	-075

1							THE STAB	. 9	· ·	343-3	•	7/06/62
5			LUW-SPEED WIND LUMBEL PINAL DAIA SHEE		DAIA		memory ARS STAG	ğ		0-70:	•	120.
E	Ø	-	ð		-	Co	C <sub>m</sub>	$\psi_{\mathbf{r}}$	À	C	<b>2</b> 7	Ç
c4	4	1.0.4	10.4		-620	0.752.0	-01C.	000	20.	-6042	-5603-	-010-
9	٠		96.		952.	.0378	4 C27-	0.7	90.	6400.	-2200	-510.
4	4	4.02	4.10		-514	.0786	-240.	0,7	30.	. 0000	-9700-	-011-
G	8.01	10	5.67		.733	50110		-00	.00	.0043	-0056-	-800
0	12.30	. 00	12.33	<b>7</b>	55.00	.1673	3 .056	-000	20.	.5032	-0026-	-500
<b>N</b>	16.03	C. C.	:6.43		1.277	05430	-140.	-65.	00.	.0033	-6000-	-000·
` <b>`</b>	16.30	00	19.45	. 60 - 40	245.	,		700	000	.000	.0524	-510-
ō	30.01	10	20.39	-	.231	3965	-073-	-00-	• 30	0071	• 036	-020-

Ę	COCCO MINE	Tributer	THE PART WHILE CHANGE COMPANY		rorci ami STAÖ	و	, no	WS 343-0	E	7/05/62
	SALEED WINE	I DURKET	TIME DAIL		monter ags STA5	9		Eve 100-0	•	126.
E	ďβ	B	່ງ	o <sub>o</sub>	C.	4	4	ۍ	75	200
13	-10.5	3.96-	-107	. 6570°	-537-	-Co	000	0-00-	-0700.	-610
4	-00	• 1 1	.375	9269	-033-	-00	000	6.000	-2637-	.323-
3	(2)	12.5	459	.1133	-063-	00.	00	1000°	-0037-	- 000°
16	6.61	8.20	616.	109:	-070-	-000	00	3000-	.0034-	1000
Q	12.00	12.37	1-175	.2:38	-070-	-07.	00	.000.	.0000	-100
Ø.	16.02	16.46	1.414	- 10E.	-090	-10.	1:0	*555.	-0100.	1-900.
20	13.02	13.45	1.359	.3074	-090	-co-	00.	•603•	.0723-	-2:5+
212	20.02	20.42	1.299	•450B	-076-	-00	00	-000-	6000	· .

Gr         Gr         Co         Co<	O,	TED WIND	TUMEL	LOW-SPEED WIND TUNNEL FINAL DATA SHEET	L SHEET		STAB	. 70	*	97701	٠.	1-10
6.32       8.17       .502       .3456       .069-       12.02-       .52-       .05:6       .0069-         0.32       8.17       .479       .0858       .006-       4.02-       4.02-       .0058       .0048-         8.02       6.16       .469       .0533       .006-       4.31       4.31       .0024-       .0016-         6.03       8.17       .469       .0522       .006-       4.31       4.31       .0037-       .0031         9.02       8.17       .406       .037-       8.00       5.00       .0134-       .0038         9.22       9.17       .678       .049-       12.01-       12.01-       12.01-       .0273-       .0037-		a B	B	J J	Co				*	•	75	ů
0.02       8.17       .0558       .0058       .006       4.02       .0058       .0048         0.02       6.03       .0533       .006       .01       .01       .0024       .0016         6.03       6.03       .0469       .006       4.01       .01       .0027       .0031         6.03       8.17       .406       .013       .037       8.00       5.00       .0134       .0038         6.02       6.17       .506       .0487       .029       12.01       12.01       .0273       .0273       .0062	· ves	8.32	8.17			93	-690-	12.02-	12.03-	9,:50	-2000.	-131-
6.02 6.16 .466 .0533 .006 .01 .01 .00240016- 6.03 6.17 .469 .0522 .006- 4.01 4.01 .00370021 0.02 8.17 .406 .0013 .037- 8.00 5.00 .01540038 0.02 0.17 .506 .0407 .024- 8.02- 0.091 .0027- 0.091	· ·	0.92	8.17	. 47		9	- non-	70.0	4.02-	9500.	-0048-	-256-
6.03 6.17 .469 .0522 .006- 4.01 4.01 .00370021 6.02 8.17 .406 .0013 .037- 8.00 5.00 .01340038 7.02 7.17 .506 .0401 .069- 12.01 12.01 .02730047	3	8.02	6.16	*466		<u>.</u>	900.	10.	.01	-0200-	-9100	000
0.02 8.17 .406 .6513 .037- 8.00 5.60 .61540038 . 0.02 7.17 .506 .0401 .069- 12.01 12.01 .02736547	0	6.03	9.17			35	-900	10.	16:7	-0007-	1200	.053
8.32 6.17 .478 .0487 .034 8.02 8.62 .0191 .0062	12	50.0	8.17	004°	٠.,	13	-037-	8.00	00.0	-6134-	. BE00	.108
-5005- 191052-8 -502- 5000- 1910. 1875- 71:00	4	4.62	4.17	.506			-690	12.01	12.01	-0273-	7400	12.
	-	8.32	6.17	175.	•	97	-030-	8.02	8-62-	1610.	-2000-	-116-

H         G <sub>1</sub> C <sub>1</sub> C <sub>1</sub> V <sub>1</sub> Ψ <sub>1</sub> Φ	8	SPEED WIND	TURNEL	OW-SPEED WIND TUNNEL FINAL DATA SHEE	A SHEET	. PRES ARES	STAB	<b>1</b> 1 1		343-0	I .	7/05/62
16.01       16.01       12.30       .033       .033       .031       12.51       12.51       .037       .0133         16.02       16.31       .929       .1286       .047       8.01       .02.9       .0119         16.02       16.31       .929       .1374       .013       .013       .020       .01       .02.9       .0119         16.02       16.31       .929       .1313       .020       4.02       4.02       .0131       .002         16.02       16.31       .940       .1313       .044       4.02       4.02       .0131       .002         16.02       15.32       .953       .1355       .076       12.03       .250       .250         15.02       15.02       .22       .02       .0147       .009	=	l <sub>D</sub>	8	<b>1</b> 5	C <sub>0</sub>	-		, , , , , , , , , , , , , , , , , , ,	- -	ی	3	C
16.02 16.31 .929 .1286 .047- 8.01- 6.0102-9 .0119- 16.02 16.31 .929 .1374 .0130101010000000000	)		16.30		_	3.0	-031-	12.01-	12.01-	•3376	-50100	151-
16.02         16.01         .01-         .01-         .01-         .02-         .05-0-	.,	10.00	10.31	.926	٠		-047-	10.8	-10.B	£+30.	4110.	-120-1
16.52     16.52     4.52     4.52     4.51     .0535       16.02     16.02     4.02     4.02     4.01     .0514       16.02     16.02     10.01     .0214     .0075     .0257     .0539       16.02     15.32     .973     .1408     .025     4.02     .0217     .0037	3		16.31	. 72	_	7.4	-613-	177	-10.	3.50	6.533.	- C.J.
16-02 16-32 -953 -1335 -076- 12-30 12-63 -03375099 15-02 15-32 15-32 -973 -1408 -5255225325147 -5607-	-	16.52	16.31		_	ū	-020-	20.4	4.32	-1510.	50000	3
16.62 15.32 .933 .1335 .076- 12.30 12.03 .03375039	23		10.01	356.		17	-0490-	3.00	0000	-0120.	.0072	1113
15.02 15.32 15.34	ធ្វើ		15.32	••		55	.076-	13.30	12.53	-1223	66000	.172
	1:		15.32	_	•	90	-37C.	-20.	4.02-1	7+10.	-5695.	1000
	-							***	·			w. #F. #B

3	DCCD MARK	The second	THE TAXABLE CAMPE COMMENTS AND THE COMME	_	Part STAS	פ		C-Ere sai		1/06/62
2	CEN WEE		MAL DAIA S	. 1	BONEW AMS STAB	19		0-501 ma		120.
	αľ	ð	C <sup>l</sup>	Co	Š	V.	*	C.	75	. J
, U	-10.	-10.	*00*	8220.	-050	12.02-	12.02-	1010.	- 2000	-121-
ហ៊	10	C	.0.21	.3230	-2004	8.03-	5.03-	-033c	.000	103-
-		.02	-030-	.0325	0.018	4.62-	-20.3	-7500.	• 0014	1000°
7	1-10.	• 05	•035-	•0319	•025	-00	-000	-0000-	-1000-	100-
	-10.	-05-	.041-	.0237	510.	4.01	4.61		.3013	.060
(°)	· ·	.01	.025-	. 5317	-2005	8.32	8.32 %	-3246-	6100	.115
	5	0	-400.	.0273	-033-	12.00	12.00	.522ē-	* CG& 4	.171
1	.01-	7	-037-	4150.	970.	.22-	-20.	• • • • • • • • • • • • • • • • • • • •	-5100	1177
101	10	-10.	-100.	.00±1	610	4.02	-70.3	-6.400	-3006-	-KCO.
N 27. 6	200	1700	.C40-	.0317	. 525	£0.3	£.63-	-1200	6000	-210.
L 18 L 71	rangu	<del>da wa</del> n	leta.		L Marie Ca	apert .	· ·sul			er. dap si
CA 1980	ristsa:	ı f.	181			Value				

P         Gr         10         Gr         Gr         Gr<	2	COCCO MANAGE	Tiber				1307 D004	STAB	•	•	NS 343-0	4	7/05/62
Gr. 0         Gr. 1         Gr. 2         Gr. 2 <th< th=""><th></th><th>-</th><th></th><th></th><th></th><th></th><th>SECTION AND</th><th></th><th></th><th></th><th>102-0</th><th></th><th>120.</th></th<>		-					SECTION AND				102-0		120.
0.00         0.15         .6460         .006-         12.02-         12.02-         .0207         .0079-           0.01         4.01         4.01-         4.01-         4.01-         0.003-         0.003-           0.00         5.01         .0521         .006         .02-         .02-         .0111-         .0004-           0.01         3.15         .475         .0503         .007-         4.01         4.01         .0211-         .0004-           0.01         3.16         .443         .0532         .035-         3.00         3.00         .029-         .0047-           0.01         3.16         .503         .051         12.00         12.00         .039-         .0550           0.01         3.16         .503         .033-         3.01-         .0507         .0556-	2	l <sub>D</sub>	8	L	ر	Co	_		ě.	*	3	73	33
3.31 5.15 .46v .0354 .00c4 4.01- 4.01- 6009- 00033- 6.30 7.11	n	00.0	9.15		+469	_	9	-690-	12.02	12.04-1	1070.	-9200.	-169-
6.30 5.14 .475 .9231 .006 .625231110064- 6.01 3.15 .443 .0232 .037- 4.01 .5100227 6.01 8.16 .503 .9311 .072- 12.00 12.00 .03940250 6.01 8.16 .503 .9311 .072- 12.00 12.00 .03940250 6.01 8.16 .465 .9593 .033- 8.01- 3.310250	7	3.31	3.15		.404		•	-400-	4.01-	7	-60000-	.0003-	.542-
6.01 3.15 .475 .0553 .007- 4.01 .02100027 8.01 8.10 .463 .0532 .035- 8.00 3.00 .02950047 6.01 6.16 .503 .0511 .072- 12.00 12.00 .03940050 3.01 3.10 .0504-	3	05.50	.8.14		.470	5,40.		900.	777	-35-	-1110.	1-4000-	.015
6-61 8-16 -463 -0532 -035- 8-30 3-30 -02950047 6-31 6-16 -503 -0511 .072- 12-30 12.00 .0350056 6-51 8-16 -460 .0592 -033- 8-01- 3-310050	Ξ	10.0	3.15		•475	. 35b	<u> </u>	-200-	10.4	• · c 1	-317C.	1200.	. J7C
6-51 6-16 -503 -3511 -072- 12-30 12.00 .0350256 6-51 8-51- 3-312030 .2254-	13		91.16		.463	.00	2	-030-	00.0	3.30	-05.70	.00.47	611.
0-51 3-164855502033- 8-61- 3-3150305254-	2	10.3	9.16		.503	150.	-	-270-	12.00	12.00	-5450.	9900	. 53
	17	10.0	3.16	2	-480	0.50	: 	-033-	9.01-	3.31-	0.00	-7650	.103-
	-					**	<u>:</u>	-			•		•   <b> 4</b> •

3					PHICE AREA STAB	9		WW 343-0		77/06/62
E O	ATEL WINE		OW-STEED WIND IUMMEL FINAL DATA SHEET		MOMENT ARE STAB	9		110-0	•	120.
E	αl	Ø	ן כר	g Cg	5	ψ,	*	C.	75	25
n	16.01	16.30	*952	.1298	-070-	12.01-	12-01-	•0274	-1510-	-170-
Ŋ	16.01	16.30	.943	•1306	- 00	8.01	8.01-	-0122	-0131-	-105-
~	16.01	16.30	.932	.1322	-021-	4.02-	4.02-	+0020	-0000-	-000
-	16.01	16.30	.924	.1353	-800	.01-	-10.	-0124-	• 0036-	-017
13	16.01	16.30	.559	1317	-210-	00.	•••	.0244-	.0016	.072
10	16.01	16.30	.937	1336	-990	00.8	8.00	-0347-	.0059	.128
17	16.01	16.31	.953	.1373	-070-	12.01	12.01	.0464-	.0081	191
10.	16.01	16.30	923	1321	-020-	4.03-	4.03-1	-0045	.0083-	-040-

3										
	THE WILL	OH-SPEED WIND IONNEL FINAL DAILA SPEED	מועח זו		BATS STAB			FUE 1111-0	•	-
Ī	ď	B	ر ر	g	ح 5	, ,	<b>\$</b>	2	· · · · · · · · · · · · · · · · · · ·	3
, U	10.	-10.	*00*	•0256	-038-j	12.03-	12.03-	-0037	●000	-145-
*	-01-	-10.	-010-	7160.	*000	8.0	6.03-	-6200	• 0051	-680-
0	-10.		•020-	•0348	-017	4.03	4.03-	-0105-	•0026	-031-
=	-10.	-50	.043	.0352	•050	.02-	-05-	-0172-	.0023	.021
6	-10.	.020	-020-	•0366	150.	00	4.00	-0281-	.0047	.075
m.	-10.	7.00	-020-	.0343	-000	8.02	8.02	•0385-	.0052	.137
-	0.	7700	.001	.0283	-033-	12.03	12.03	-6440-	-0056	.202

a C <sub>1</sub>	5		STAB	•	112-0		
		E 3	4.	4	5	1. 75	) )
	•0265	-960.	18.03-	12.03-	6000	-0022	-147-
-+1010.	.0325	-003-	8.03-	8.03-	-2600.	.0028	-088-
-02-	1980-	.010	4.02-	4.02-	•0135-	.0037	-028-
-05-	.0372	.028	.0.	-01	-0120	-0000	.028
-08-	0000	.021	10.4	10.4	.0342-	• 0063	.083
-10.	9720	-003-	10.0	8.01	-0446-	• 0073	•140
*00° -10°	*150*	-038-	12.01	12-01	-1950-	.0071	.209

	CHUR ALL	TIMILE	THE STAN SELECT CHANGE	••	POPER ALES STAB	, m		TEST 343-0	344	7/06/62
76-70	EED WIND	I ONNEL 1	INAL DAIA	1	MOWENT ATES STAB	i		113-0	•	120.
ā	α	B	ڻ	Co	E O	4,	\$	ځ	Ç	ပိ
er)	-01-	-01-	•004	.0216	.042	12.03-	12.03-	.0224	.0023-	-177-
. 1.22. \	.01	-05-	•033-	.0306	•017	4.02-	4.02-	.0067	.0025-	.054
` <b>`</b>	10.	• 05-	-047-	• 0300	•025	-20.	-05-	•0054	-6100.	-010-
· o	-01-	-05-	•036-	.0307	•001	8.00	8.00	-8600•	-6000-	060.
0.1	.01-	-01-	Ĭ	.0272	.031	12.01	12.01	.0175-	-0100	.147
12,	-01-	-01-	•021-	.0271	•005	8.03-	8.03-	•0141	.0026-	-113-
13	-010.	• 02-	-040-	.0316	•024	2.01	10.5	€ 000	.0024-	.018
1 <b>4</b>	.01-	-05-	-044-	.0307	•027	2.02-	2.02-	•0058	-0700	-028-

	OW-FIED WIND TURNEL PINAL DATA SPEED		STAB	STAB	Ī	114-0	•	120.
מיינו		c <sub>o</sub>	5	$\psi_{\mathbf{i}}$	. 4	۔ ئ	75	ر رد
-10.	80	.0229	.047-	12.02-	12.02-	. 020	-6200-	-179-
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-10.	028-	.0326	•013	4.01-	4.01-	. 1500	-2100.	.052-
.02-	.035-	.0327	-022	00.		. 9200*	-1200.	- 008-
.0204	.043-	.0337	.020	00.4	4.00	-9200.	.0017-	0.00
-10-	028-	.0337	-200•	8.00	9.00	.0063-	-6000*	• 086
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3101	Dies winte	THANKE	4746 14161	1	THECH ATTS STAB		<b>F</b> .	TIST 343-0		MH 7/06/62
C-M01	PEEU WIND	CONNET	LOW-SPIED WIND LUNNEL FINAL DATA SHIEL		MOMENT ARES STAB	18	•	Nu 115-0	•	120.
*	α	B	J C	င္စ	ۍ	$\psi_{\mathbf{t}}$		5	7	ر د د
0	8.01	8.16	.501	.0473	-077	-077- 12.02-	12.02-	• 0303	-6200+	.189-
. •	8.02	8.16	.470	•0566	-600	4.02-	4.02	• 0005	• 00200	.053-
<b>.</b>	8.01	8.15	.461	.0537	1000	.01	.01-	*0000	-0016-	-005-
<b>'</b>	8.02	8.16	+475	•0544	-900	4	**00	-0087-	-0012	.051
~	8.02	8.17	• 480	.0540	-035-	8.02	8.02	-0144-	• 0032	•102
0	8.02	8.17	.498	•0513	-690•	12.01	12.01	-0550-	• 004	.165
<b>*</b>	8.02	8.17	.478	•0516	-037-	8.01-	8.01-	•018	-5900	-6110
	1 A ST 2		1	1		-11 Tu	. iaa		t' dhayad	w4\1

200	ONIM USSO	THAINE	TOW COLED WIND THANK! EMA! DATA CUEST		POPUL AIRS STAB	<b>A.B</b>		un 343-0	SAVE II	1/06/62
	יייייייייייייייייייייייייייייייייייייי	NO TOWNEL FINAL D	TINAL DAIR	_	•,	AB.		eve 116-0	•	120.
Ā	<b>δ</b>	δ	ີ່ວ	1	S S	4	Ą	້	75	ပ
2	8.02	8.17	.49B	9080	-07e-	12.02-	12.02-	.0290	-0200	-621
10	8.02	8.16	.476	• 0536	-040-	8.03-	8.03-	.0173 #	• 0063-	-1117-
<b>4</b>	8.02 ·	8.16	•468	1650.	-410	4.02-	4.02-	•0052	-6004	.051-
`• !	. ເວ.ສ	0 . 1	1654	.0045	- 100	.01	-10.	• 0000	.0013-	-000-
<b>/</b>	3.02	8.16	.471	.0572	.013-	4.02	4.02	-0007e-	♦100•	. 04V
<b>5</b> 0	8.02	9.17	476	.0557	•035~	8.00	8.00	.0130-	•0026	• 088
·	8.02	8.17	164.	.0535	-070-	12.00	12.00	.0245-	• 0043	• 156
	1.40 rt	)	1124	, 1. <del>4.</del>	La La Carte	ة الاستهاد .		w	المامية	a t

OW.CE	SEED WIND	COW CREED WIND THINNEL FINAL MATA CHEET	AL DATA C		MICH MILE STAB		E	785 343-0	ET.	1/06/62
				_	MOWENT ATES STAB	8	•	Put 117-C	•	120.
7	ς <b>1</b> υ	Ø	Ç	c <sub>o</sub>	E	$\psi_{\mathbf{t}}$	C <sub>m</sub>		7,3	ů
'N	-60.	• 03-	000	.0257	-040-	12.03-	12.03-	.0171	-0000	-171-
M.	•05-	•02-	.018-	.0322	-210.	8.01-	8-01-	.0110	-0100	.111
in i	-05-	• 03-	-040-	.0349	•022	00.	00.	• 0059	.0021-1	-600
0	-05-	•03-	-052-	.0365	•018	4.01	4.01	•0016-	-0200-	000
, <b>,</b> , , ,	-05-	•05-	-031-	•0396	-005-	8.00	8.00	-9200	.0015-	•083
<b>6</b> 0	·05-	• 05-	-600	.0321	.034-	15.00	12.00	.0144-	-9100-	.138
0	-20-	• 03-	-036-	.0354	0 10	4.03-	4.03-	• 0050	-6100	-055-
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2		LOW-SPEED WIND TUNNEL FINAL DATA SHEET	IAL DATA	SHEET	SCALUL ARES	STAB			1.8-0	•	120.
	ar	8	15	c <sub>o</sub>	-	J.	4,	•	٠ ت	3	3
5	e.02-	8-17-	-105.	.00.89	6	.058	-05-	.02-	9700.	-9000	.007
'n	4.02-	4.11-	-304-	•0380		9000	.02-	.02-	•0053	-5000	-003-
.4	.01	.05-	•043-	•0256		.032	20.	.02-	.0020	.0011-	- 000
0	00.4	. 90.4	•205	.0332	2	.022	-05-	-05-	-,0022	-0011-	-600
ö'	8.00	8.14	.467	.0516	9	900.	-05-	.05-	-1000	-2 100	-000
۲.	12.01	12.23	.709	•080	•	. 100	-20-	.05-	-6000	-6200	-000
60	16.03	15.32	.950	.1313		-010-	-20-	-05-	-5000	-00000	• 005
0	18.01	18.32	586.	•1696	•••	-015-	-20-	.05-	. 0027	-0100.	- 500 •
=	20.02	20.32	.956	.2364	4	.072-,	.02-	•05-	. 0000	- 0017	-110.
2	8.03-	8.18-	-505-	•0715	<b>.</b>	, 190•	.03	.03	·- 2600°	.0016-	600.
					· • • • • • • • • • • • • • • • • • • •					n 3	

3	OW COCED WIND THINNEY CHAIL CHECK	TINNIT	S ATAC SAM		FORCE AXES STAB			4m 343-0	Tre .	7/06/62
	מוא נווער מוויר בווער	1 TEALWOOL	INAL DATA		MOWENT ALES STAB	8		Num 119-0	•	120.
Z	σ	מ	ئى	ပီ	ٿ	4.	*	6	73	3
	4.02-	4.11-	.307-	.0583	140.	.03	.03	.0081-	-0342-	.013
0	-30.	-60.	-047-	.0440	.031	.03	• 03	.0063-	-0383-	.017
**	00.4	* 90	.207	.0514	•010	.03	.0.	.0039-	.0353-	•017
13	8.00	8.14	.476	.0709	•007	•03	.03	.0032-	.0370-	•023
S S	12.00	12.23	•735	.1030	-200	•03	•03	.0015-	-0401-	• 526
17	16.01	16.31	.973	.1568	-014-	• 03	. O.	•0039	.0433-	• 020
16	18.01	18.33	1.031	1996	-610-	•03	.00	• 0086	-0377-	.011
18	20.00	20.30	550	2714	.055	.03	00	-0014	.0391-	- 600

ě	CINON WIND	THANK				PORCE ARES	STAB			HE 343-0	***	7/06/62
5	OW-SPEED WIND TORNEL FINAL DATA SHEE	ומשבר	TIMAL	DAIA	SHEET	MOMENT ARES	IIS STAB			120-0	-	120.
=	ď	$\alpha_{\mathbf{f}}$ , $\alpha$		ر	ე		ٿ.	ν.	÷	 	75	3
'n	4.02-	4.11-		-301-	0561	: 15	.042	.03	.03	.0124-	.0271-	.017
¥,	-00.	-10.		-053-	00,00	2	.032	.03	.03	-0045-	-0267-	•010
۲.	4.02	4.08	. 5/4	.205	.0451	51 5	•050	.03	.03	.0028-	.0271-	.013
ō	8.03	8.17	****	.467	•0654		900•	•03	• 63	-0053-	-050	•050
-:	12.00	12,22		.722	.0952		-900	50.	50.	-1100.	-4150-	.020
5	16.00	16.30		.953	.1470		-015-	.00	.03	.0048	-0341-	.012
17	18.01	18.32	-	•000	.1987	. 16	-610-	.03	.03	.0071	-0300-	• 010
10	20.00	20.30		656.	. 2638	38	-950-	.03	.03	-0000	.0363-	-900-

3	rotes w	TIME TIME	THE PARK THE	, ,,,,,		FORCE ARES . STAR	9		ter 343-0	#1	7/06/62
5	STEED W	20	NEL FINAL	DAIA		MOMENT ATES STAB	ę,		NW 121-0	•	120.
E	ä	8	່ງ ກ	ت	Q <sub>0</sub>	E 3	,	*	5	75	J J
· K	4.02	,	4.11-	301	.0469	.047	-00	-00•	-0028-	-0186-	600
<b>*</b>	-05-	<b>.</b>	• 03-	-048-	.0349	•034	-000	-004	-9200•	-0181-	.007
0	4.03	ووعدا	60.	.205	.0393	.021	.01-	•01-	.0013-	.0184-	900
	8.01	B. C.	8.15	-474	.0576	900	•05	• 02	-0000	-0189-	010
N.	12.01		12.23	.708	•0879	-000	.02	•05	-5000-	-0214-	•014
<u>F</u>	16.00	7° <b>48°</b> 4	16.29	-945	.1393	-200	•02	• 05	•0036	-0236-	6000
10	18.01	~- 7 FW.	18.32	:66:	1783	-017-	-02	• 05	.0045	-0824-	• 010
21	20.03	Tar TH	20-33	.955	.2548	-020-	-02	•05	+0034	-9980-	• 003

				, -	THE AIR STAB		•	WW 343-0	R A	7/06/62
- MOI	SPEED WIND	IONNEL F	LOW-SPEED WIND JUNNEL FINAL DATA SHEE	•	MONIENT ALES STAB	9		PW 122-0	•	120.
٤	Pr. a, i a ( C	B	ບ	Co	C <sub>B</sub>	$\psi_{\mathbf{r}}$	À	້	73	ပိ
ທີ່	4.03-	4.12-	-303-	.0420	.048	.02	•05	-0200-	-0600	-100
7	000	.01	-047-	•0314	.031	-02	0.0	-6100.	-6600	• 003
0		4.07	661.	.0362	.021	-02	•05	-9000€	-9600.	-003
111	8.02	8.16	463	0539	600	0.5	•05	-6000	-0105-	•00•
13.	12.00	12.22	. 709	.0324	• 001	-02	-02	*000°	.0107-	900•
້.	16.01	16.30	.949	.1326	-800•	• 02	-02	.0016	-0135-	500
17	18.01	18.32	.993	.1738	-017-	•05	•05	• 0025	-0107-	• 005
211	20.03	20.32	.952	.2433	-074-	.02	•05	\$000	-0800-	-200

3							FORCE ALCE STAB			um 343-0	Trye .	7/06/62
5	Arren	AIN	OW-SPEED WIND LUNNEL FINAL DAIA SHEET	FINAL	DAIA	-	MOMENT ARES STAB	6		•	-	120.
4	Pt at a		ø	ne.r.	2	0 <b>3</b>	ے د	ψ.	¢	້	75	ပ
4	4	4.03-	4-12-	1. j is	-562.	0500	440	.01	.01	-00100	.0083	800
1	•	01-	•02-	. Tangar	-043-	•0306	.032	10.	• 01	• 0019	.0076	-000
0	•	4.00	4.06	<b>3 4 6</b> '	•206	•0355	• 010	•01	.01	6000•	.0076	.000
-	8	8.03	8.17		.472	.0556	200.	-10.	-01-	-0034-	• 0072	- 100
13	12.00	00	12.22		• 706	.0822	.001-	-10.	-10•	-2000-	.0083	-000
50	15 . 16.01	01	16.30	r 10 2	175.	.1307	-200	•01-	-10•	-9000•	.0032	-000-
17	18.00	00	18.31		.987	7171.	-017-	-10	-10.	-0000-	.0120	•013-
19	20.01		20.31	معدد	986.	.2446	-670-	-10.	-10•	•0033-	.0160	•023-

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3	BEEN MANA	THUMB I	OW CREED WIND THINNG SINAL DATA SUET		MACE ASES STAB	9		343-0	=	3/06/62
	CON-STEED WINE	WIND LUNKE	FINAL DAIA		MOMENT ALES STAB	. 81	*	124-0	•	120.
٦		B	Jo	င္၀	E	4,	3	C.	73	Ce
m	4.02-	4.11-	-962-	.0440	440	-10	-10	.0054	1810.	1-610-
່ທ່	01-	-05-	-044-	.0342	•030	• 01-	-01-	• 6637	.0166	-010-
~	4-02	4.08	.207	.0385	•050	-10-	-01-	.0021	.0165	•011-
0	8.00	8.14	471	6250·	•000	,-10.	-10-	• 0000	.0177	• 011-
11.	12.00	,12.66	.707	.0E52	• 003	-01-	-10.	-0100-	1610.	.012-
13	16.02	16.31	940	-1342	-200-	-10.	-10•	.0023-	• C197	-013-
15.	18.02	18.33	1.005	1752	-017-	-10.	-10.	-1500-	.0231	-210.
17	20.01	20.31	•964	.2486	C74-	.01-,	• 01 -	-0500	.0289	.032-

10W	SPEED WIND	THANEL	COW-SPEED WIND THINNEL FINAL DATA CUES	<b>-</b>	FORCE ATES STAB		<b>H</b>     .	nn 343-0	2	7/06/62
			מאר מאוא		MOMENT AKES STAR			EUM 124-1	•	120
£	σ	α	ت	င်	٣	4	4	5	73	
์ <b>ต</b> ์	4.02-	4.11-	-562-	.0440	440.	-10-	-10.	.0042	. 1710.	-600
<b>.</b> A. 1777	-000	-10.	.045-	.0341	•032	-10.	-10.	• 0000	.0175	.013-
^	4.01	4.07	•211	.0382	•010	-10.	.01	•0021	.0167	.010-
0	8.00	8.14	.467	.0553	• oce	-10.	-01-	•000	.0176	.011-
13	12.50	12.22	. 705	.0846	• 501	-10.	-10-	-2000	.0195	.(14-
13	16.00	16.30	. 953	.1343	-900•	-01-	-10•	-0051-	•0200	-012-
<b>_</b>	13.02	18,33	666.	.1778	.016-	.01-	• 01 -	-6029-	.0238	.015
0	20.03	20.31	656	.2474	.074-	-01-	-01-	-0095-	1 7620.	. 628-

<b>⊠</b> -8	LOW-SPEED WIND TUNNEL FINAL DATA SHEET	TUNNEL	FINAL DATA	i	MODELE ATTS STAB			743-0	1	7/06/62
L	$\alpha_{\mathbf{I}}$	8	J	o <sub>2</sub>	∮ <sub>E</sub>	W	*		, 73	
5	4.01-	4-10-	-298-	-1 .0496	•042	-01-	-10.	.0068	.0264	-015-
'n	-00	-10-	-250.	7650.	•032	.01-	-10.	•0056	.0266	-010-
	4.02	4.09	210	0435	• 018	.01-	-10-	•0030	.0258	-910-
0	8.00	8.14	.469	•0618	900•	.01-	-10.	.0011	.0269	-017-
• L	12.01	12.23	•717	0560.	-100	.01-	-10.	-00100-	.0203	-018-
· n·	16.01	16.31	.955	.1420	-010-	•01~	-01-	-0036-	•0306	-016-
13	18.00	18.31	566.	.1836	-020-	-01-	.01-	0041-	9160.	-010-
17,	20.00	20.30	.954	. 2536	.073-	-00	-10°	-0051-	10416	40

3	יאואי שואטי	TOW CORED WIND THUNG GIVE A CURT	TO SATA CL		PORCE AUR STAB	•	1231	0-645 1	DATE	7/06/62
	ALLE MAN	וסטוענד ניתע	AL DATA SI		MOMENT REES STAB		ana	126-0	## ##.	120.
٤	β	8	ن	ပီ	E	W.	4	5	Cre	ບ
ທ	4.02-1	4.11-	-308-	.0568	**0	-01-	-10	1400	*050	-010
, L	6	00•	-048-	•0466	•020	• 611-	·010·	. 6500.	.0355	. 629-
0	4.01	4.07	-207	BOTO.	.018	-01-	-10·	• 0042	.0349	-020-
1	8.01	8.16	.478	•0583	• 604	-10.	-10.	. 6000	•0321	-613·
13	12.01	12.23	-714	0660	-005-	-10•	•01-	-9100-	•0369	.023-
in a	16.01	16.31	•958	.1491	.012-	-01-	-10.	•0052-	.0389	-050
17	18.00	18.31	1.004	. 1952	.023-	-10.	-10.	-8500	.0365	-120.
23	20.01	20-31	.979	.2773	-068-	-01-	-10-	-0018-	.0469	.043-
25.2	18.00	18.31	1.013	1957	•024-	.01-	•01-	-6500•	.0330	•024-
. a. wa	V 4 → 'TP'	As a c	' अध्यक्षाचा		a 9.1, 3.°		n •		1) •	-
ay taken		.w°F@	e Johan	eta ak.º ⊣		.e:	Ann i film		•	
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3	CDEED WIND	TINNEL	DOW SPEED WIND THUNET CHAIL DATA CHEET	_	POPER STAB	n	-	1131 343-0	72	7/06/62
	or the wind	I DUINET I	וואר האוא	_	MOWENT ALES STAB	<b>1</b>		1-121. HM	•	120.
٤	αξ	8	ن	င္မ	ٿ	4	*	<u>ئ</u>	73	3
<b>n</b>	8.02-	8.12-	-332-	.0857	.023	70.	20.	.0104	.0395	,-010.
้เก็	4.02-	4.03-	-045-	• 0630	.001-	• 02	• 05	-0105	.0395	• (25-
7 W.L.	-10	• 06	.237	.0721	.023-	• 62	• 05	. 0073	. 6378	-010-
<b>O</b>	10.4	4.17	.511	.0931	-63a-	. 22.	• 03	3300.	• 0364	.622-
17	8.00	8.24	. 793	.1302	.051-	•05	• 62	.000	.0331	1770
S	12.01	12.34	1.069	.1831	-620°	. 20.	10.	-5000	9450.	. 624-
17	16.00	16.40	1.271	. 2591	.052-	₹0.	. 50.	-1/500.	•0411	-010-
10	17.01	17.42	1.312	e2513	-076-	• 02	•05	-2900•	. 6354	-610-
21	18.02	18.44	4550° E	.3042	-240.	• 02	• 05	.0073-	•0369	-616-
23,	20.02	20.37	1.137	.2312	-070.	•02	• 05	-9000.	.0138	.012-
25	10.61	19.35	1.231	.3785	-065-	• 05	• 05	-0047-	• 0550	.022-
er sta	T, P4 4			1 7 (	er, an 1	• •	4. 24	- <b></b>		Súa (

2 747.0					FORCE ATES STAB	m	,	1157 343-0	344	7/05/62
C-M-2	PERU WIND	LOW-SPIED WIND TUNNEL FINAL DATA SHEET	AL DAIA		MOMENT AKES - STAB	øn.	1	rem 125-1	•	140.
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33	8.01-	8.11-	-319-		.023	-02	.02	. 6000:	.0223	-600-
300	4.08-	4.03-	-037-	.0546	-005-	. 20.	•05	.0045	.019a	.012-
37.	-05-	. 60	.237	4650.	•023-	.02	•05	.0038	.0150	-010-
39.	4.00	4.17	.542	.0813	•045-	•05	•02	•0034	.0150	-015-
41	8.01	8.25	•789	.1176	-050-	•02	• 02	•0018	•0203	•013-
(F)	12.01	12.34	1.065	.1716	.026-	.05	. 02	• 0005−	.0203	.012-
	16.01	16.41	1.271	-2442	.048-	•05	. 02	-6100	.0211	-014-
64	18.02	18.43	1.309	.3144	.053-	•05	• 02	• 0000	.6337	-620.
ត	20.00	20.36	1.219	.3945	.081-	• 02	•05	•0013-	.0210	-050-
tua. N.	* *3 ¥.			arsuvi:	A15. **			•		• [8]
د د هستان د د هستان	• احدید	-C-411			, A	** ***		•	:	
هيد.	C.1108.1	•. <b></b>		· <b>44</b>	FIRM	. 3.	l.a		,	. 184
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						FORCE ARES STAB	ď		HH 543-0	112	7/00/62
 Δ	UW-SPEED WIND LUNNEL FINAL DATA SHEE	CONKE	NINAL C	AIA		MOMENT ARES STAB	Ø		9-521 mm	ď	120.
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7	e.02-	8.13-		325-	5290	•C19	50	• 0 8	*C00•	• CGC1	-0:0.
0	4.02-	4.02-		-100	. 0483	.001	. 02	• 62	5000	-0100	.601-
11		*C*		242	.0356	.022-	•08	*05	-1000-	.0016-	- 100
13	4.01	4.17	•	516	.0772	-650.	• 05	8	•0009	-0160-	-100
15.	00.3	8.25		802	.1146	-640.	• 02	•05	• 0005	.0016-	. CC1-
17:	12.01	12.34	1.	.071	16ē1	• 654-	• 62	•05	-0000.	,-ceso.	.039
6.	16.01	16.41		281	2422	.048-	.05	•05	• 0008	-0025-	-200-
21	18.03	18.43	•	1.296	.3115	•050-	• 05	• 05	. 0045	•0136	.525.
23	20.01	20.40		1.241	•3996	1-260•	•05	•05	6100	6000	• 020•
12.12"	ir Augm		. د د د د د							-	-
ruas, V.	414		a Owin all ass		· Comment		•				- *
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	HOW SPEED WIND TITMER FINAL DATA SHEE	TITALISE	ENA	ATAG	CHEET	PORCE ANTS	STAC	D		HH 343-0	1	7/00/62
						-	STAB	Ð	3570	130-0	-	120.
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*	E-13-	D-16-	-y-	-997.	-0702	22	.013	30.	-05	-0087-	.0225-	1930
=-	4.01	4.01-	i-	.028	.0549	ا ق .	-000	.02	30	-6600	.0210-	
. 55	4.01	4.17		.517	.0915	ار د . ت	-920.	ZU*	>0.	.0024-	.0226-	
	8.03	8.27		.788	2711.	3	-050-	•62	• 05	-0100.	-0241-	410.
0	12.62	12.35	<b>-</b> .	1.073	ct7135	. ť	-953.	. 02	•05	-2000	-0274-	.016
21	16.01	16.41	<b>-</b>	472.	.2471		-600	.02	.00	.0030	-0261-	.012
23	18.01	18.44		1.331	.2893		-047	-02	•05	. 0505	-0530-	. 603
53	20.02	20.40	-	.224	.4051	. F	-970.	•02	8	1800•	-1010-	-010-
27	-20•	• 05		.244	6090-	6	-050-	• 05	20.	-1000	.0216-	600.
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3	NEI FINA	COW-SPEED WIND TINNNE FINAL DATA SHEET	_	Med and STAB	41) 10	••	ия 343-0	K	1/06/62
				BOWLINT ARES STAB	<b>Q</b>		131-0	-	120.
ď		C <sub>L</sub>	O	 	ψ	Ą	້"	75	Ç
8.12-		.341-	0.580	.027	•05	-02	-0121-	.0371-	.011
4.03-		.043-	. 6693	1000	50.	-02	-0112-	-0386-	910.
•08		.234	•073€	-021-	.02	•05	-6800•	-8600	• 320
4.18		•503	.0947	-037-	-02	.02	-0057-	.0407-	•025
8.25	1	.792	1317	.053-	• 02	• 02	-0500	-0420-	•024
12.02	-4	157.1	.1861	-050-	• 05	.02	-0000	.0456-	.028
16,41	-	.278	.2659	-055-	•05	•05	0900*	-0445-	•010
18.41	1	.296	• 3289	-045-	•05	• 05	.0102	.0225-	.013-
20.37	-	-204	960**	-072-	• 02	-05	•0112	•0266-	-100•
17.42		.296	•3006	-048-	200	20.	9600•	-0344-	.001
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3		THE PATE CHIAL CHIAL PATE CUT	1 5 4 7 4 CU	_	FORCE AMES STAB	8	•	11st 343-0	Fa.	8/17/62
	UNIAN MINU	IUNNEL FINA	L URIA ST	_	MOMENT ARES STAB	9	7	132-2	•	120.
Z	αg	ð	ئ	င္ပ	5	$\psi_{\mathbf{c}}$	ψ.	ເື້	, 7 <sub>3</sub>	C <sub>C</sub>
'n	8.00-	8.05-	-175-	6860	-500.	00	1-00°	.0125-	.0397-	-012
ູ ເກຼ	4.02-	4.00-4	•092	.0933	.024-	00.	000	.0106-	.0412-	-012
1	-00		.372	.1030	-047-	CO.	-00	.0091-	-0416-	.023
0	4.00	4.20	.644	.1290	.064-	000	-00	-0058-	.0416-	• 023
· · · ·	8.01	8.30	.924	.1757	-074-	00.	-00•	.0038-	.0435-	• 026
໌ ຕ	12.01	12.38	1.181	.2356	-075-	00.	• -00•	-2000-	-0461-	•026
	16.01	16.45	1.403	.3315	•066-	000	-000	.0067	.0455-	•014
61	18.00	18.42	1.347	.4133	-290	000	-00•	• 0084	.0312-	• 005
23	20.01	20.40	1.244	.4629	-078-	-00	00	.0104	• 0233-	-100
خيال ۱ ۲	ak ta <b>sa</b> t	: • • • •	,	ው ቁልጥ.	: : : :	,	en anviro	. <b></b>	• ****	au S. Ten
e a zero	, <b>8.19</b>	e , amerika	en ace		. / *****	** #* & mad	THE ST	#1.5 A	rea //	5-44 to
1				-	•		4	*	+	1

3	Cocco warm				Meta tates STAB	:=:		75 343-C		7/06/62
	STEED WIND	I DUMEL I	LOW-SPICE WIND LUNNEL FINAL DAIA SHEET		MOMBER ANS STAB	8		133-1	•	120.
Z.	ıμ	α	J <sub>O</sub>	Co	C	ψ.	2	5	3	3
2	4.01-	4.10-	-300-	.0415	.049	20.	•05	-9000	-6000-	-100
n	-00.	-10-	-055-	.0316	.029	-02	-02	•6002	-6000	-200
4	4.01	4.07	161.	.0355	-021	•05	-02	• 0003	-6000-	.001-
n	8.01	8.15	.453	.0531	•010	• 02	•05	-0000	-0011-	-000
0	12.00	12.22	.705	•0837	-001-	0.00	-02	-1000	.0024-	000
<b>P</b>	16.00	16.29	.922	.1354	-600•	0.00	•05	*000°	.0627-	-100
0	18.03	18.31	.987	.1743	-017-	-02	• 05	6000•	•0010	- 900
6	20.00	20.30	.959	-2492	-057-	0.02	-02	-00046-	-9000	-000•

2	COUNT PASSE	711111	4	24.5 6464		FORCE ALES STAB	;		TEN 343-0		7/06/62
A -	LOW-SPEED WIND TOWNER FINAL DATA SHEET	TOWNER	FINAL D	AIA SHE	i e	MONENT ARES STAB	Ø,		PUR 134-1	-	120.
£	a dp	ð	ບ		ဝ	E C	ψ.	ę	c,	73	ပိ
۲, ·	.01	.01		-210	.0233	-033-	12.01-	12.01-	.022c	-0500-	• 1 BC-
<b>ُ</b>	.01	• •		035-	.0280	-000	B.CCP	0000	. 7210.	-2500	.123-
4	10.	• 00	<b>,</b>	043-	.0334	.018	4-01-	4.01-	• 6056	-0050-	-653-
ŝ	.00	00.		055-	.0327	•050	-00	00.	• 0000	-0017-	• 006-
Č,	10.	.00		-990	.0324	.027	4.03	4.03	-9700.	8000	.050
ω,	.01	-00		045-	.0290	•003	8.01	8.01	.0144-	• 0C1 4	.104
Ü	0	•01		.018-	.0267	.031	12.01	12.01	-1610.	000	.158
TWE	347 44		U# 2	***		. ,	. Fe.	A-194	er z w	Part 6	
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AND THE PROPERTY OF THE PROPERTY OF THE PARTY.

						1884 Deer	BAT2 . 8			ther 243-0	12	7/06/62
	9	LUW-SPEED WIND LUNNEL FINAL DAIA SHEE	IKAL	DAIA	NACK!	Powlut AEES		en .		Pun 125-0	-	140.
		B			o <sub>o</sub>		ت ق	Ų.	÷	ڻ	7'3	رن
				•			. 14			.44		£28
8.C1		8.16	i a se	.485	.0479	<b></b>	-067-	12.03-	12.03-5	•0322	-6900-	.163-
8.02	n #7	8.16	· • • • •	195.	•0498	ω 	.033-	8.01-	8.01-	.0198	.0062-;	-117-
3.02	er 7 a 11	8.16		. 460	.0576	9	BOG.	4.03-	4.03-	. 5500.	-006e-	-530.
B.02	147.	8.16		454	0539	 	500	-20	-23-	-6000-	-6100-	-603.
8.02	187ml 1	8.16	. #1 _	.453	.0529	0	.001	4.02	4.02	-0117-	. 3100°	\$ 650
8.02		8.16		. 151.	.64PB	 E	. C24-	10.0	20.0	-2410.	\$600.	.112
8.02		8.17		*464	.0480	0	.061-	12.00	12.00	.0267-	. 56036	.175
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36	CALLA COLOR	TIMME	TANK	1	Line	1317 DBG	STA9			343-0		7/06/62
-	UW-SPEED WIND IONNEL FINAL DAIA SHEE	IONNET	Z .	MAIA	SMCE.	BOMINT AXES	STAB		ě	112.00	••	120.
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់ស្ពី	8°C1-	8.07	ļ.,	-196-		34 :	-100	-00	-00	-5400.	-5000	000
H H	4.017	3.59-	-1	•069	.0784		.023-	00.	-00	-0630-	- 0014-	• 002
N.	10	• 10		.365	.0881	1844	-5.00	-00	00.	-60000	.0021-	-000
17	4.00	4.19		.633	11151		-650	-00	-00.	-90000	.0024-	100•
5	8.01	8.29		.914	.1603	   	-690.	00.	-00.	-6100.	· C040-	• €003
21.	12.00	12.36	-	.163	.2210		-270.	-00	-00.	-0100.	.0945-	• 600
23,	16.03	16.47	-	406	.3087		-290	00.		2000.	6200	• 003-
2	18.00	18.43		1.372	-4002	L-mark	.063-	-00	00.	.0012	- 0002	· C13-
27	20.00	20.40		1.288	. 4569	u 1)-	-570	-00	00.	.0026	-0630-	-600
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1. <b>9.</b> 347-4	nk UV ne					nes as	• •	<b>. ab</b> ca <b>.</b> (1)	B E.yi <b>Sab.</b>			, ds 1
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					FRECE AUTS STAU	•	2	W 343-0	*	7/00/05
•	SPEED WINE	TOWNE	OW-SPEED WIND JUNNEL FINAL DATA SHEET		Monter ARE STAR	m		127-0	•	120
2	αg	7	<b>1</b> 0	CO	E C	W <sub>s</sub>	4	ڻ	. 73	ບ
V.	4.01-	3.98-	-100		-024-	:-00•	-00.	-5350	.0222-	<b>200</b> •
7.	.01-	• 10	.378	1060.	-047-	-00-	-00.	•0056-	-0217-	.010
0	4.02	4.22	949	1111	650-	-000	-00	.0041-	.0220-	•015
1.1	8.02	8.51	.939	.1647	·C73-	-00.	60.	. 6038-	• 0265-	.018
-	12.02	12.38	1.173	.2232	•673-	-00	-00-	.0313-	•6278−	•014
15.	16.01	16.45	1.403	0315°	-090-	-00.	-000	.0026	-6720.	•000
17	19.01	18.43	1.354	-4033	-662-	-00-	CO •	.0048	-0197-	-0000
6	20.02	20.42	1.284	1004-	-980-	-00	00	• 0026	-0169-	-000-
										1 .

3	ישראי שיואט	TIMME	SCHOOL MIND THUNG FINAL PAIR CHEST		PORCE ARES STAD	, ,		nn 343-0	140	7/06/62
	מבכבת מועה	CONNEL I	TINAL UNIA		MOMENT ARES STAB	æ		Nu 138-0	•	120.
٤	αg		S	ပီ	E	V.	*	ځ.	Ç	ပ
, rv.	8.03-	8.08	190	.0886	-600	00	00	.0013-	.0224	-000
*	4.02-	4.00	390	.0789	-622-	-00	000	• 0052	.0213	-026-
23	-00-	.11	.365	0060•	.046-	00	000	• 0004	1610.	-0110-
-1 -17 	4.01	4.21	979.	.1142	-650	-00	000	.0037	.0194	-C113-
(1)	E.03	6.31	516.	. 1590	- 990	-00.	000	•0013	.0199	-600
¥1	15.00	12.36	1-171	.2201	-070-	-00	000	-0000	•0203	-015-
17	16.01	16.45	1.407	.3112	-090-	-00	• 00	-0011-	.0230	-010-
5	18.00	18.42	1.362	.4061	-064-	-00	000	-0021-	.0172	-120-
7	20.01	20.41	1.285	.4570	-680-	00.	•00	-0017-	.0167	-050-
هليت	₹ <b>'9</b> 8'J		31241		er (Alb.) (			* in *	л <b></b>	
134 F			,	# 28.4	<b>97.</b> 7	- 14-	ige, rei	- PUA	1	
						*v. 1.¶		eidar.	,	8

Rums 139 to 158, inclusive, and 160 to 169, inclusive; no force and moment data were recorded.

ONIM OF	TINNEL	OW-SPEED WIND THINNEL FINAL DATA SHEET	,	FORCE ARES STAB	10		nu 343-0	PATE	7/06/62
				MOMENT ATTS STAB	9		1 1 5 C-O	•	
ğ	B	J C	က	SE SE	ψ.	¢	ی	75	30
01-01	.01-	.001	.0194	-035-	12.01-	12.01-	. 6720	.0063-	-181-
•01-	-01-	-600	.0213	.021-	10.01	10.01	.0210	6300.	145-1
-10-	-10.	.013-	•0248	-900•	3.00-	8.00-E	•0166	-9536-	-118-
-00•	00.	•026-	.0250	010	6.02-	6.02-	.0141	-5500	-960.
-00	-10.	.034-	.0285	.022	4.00-	4.00-	0.500	-0000	-250•
-00	•01-	-620-	•020	•030	2.02-	2.02-	.00040	.0023-	.031-
-00.	-10.	-940.	.0292	033	-00	00.	-01:00	-0100	. 201-
-0c•	-01-	.054-	.0294	€ 250.	2.01	2.01	-9500	.0001	• 625
-00.	-01-	-350	.0293	080.	DO.4	05.4	-1400-	.000.	• 052
-00		-047-	.0281	.019	6.03 ·	6.03	-9010	5000	. 910.
-00.	-01-	-320	•0262	900.	<b>3.</b> 02	8.0€	.0154-	.0005	101.
 -00°	60.	-010-	.0233	-029-	12.01	12.01	.0224-	. 6012	.163
-00·	.C1-	.032-	.0285	•015	10.9	6.01	.0104-	-2000•	•073
000	-10.	•039-	1570 .	•625	4.00	* 000 5	-0880-	• 0co3-	(2 m) O •
-00.	000	-021-	.0267	-000•	8.02-	8.02-	. 8710.	.0362-	117
			TO TOW		. 25		1 1 m/g	***	<b>a</b> at 1
				•	-	-			

Pri di $\alpha$ $\alpha$ $C_L$ $C_D$ $C_m$ $\psi_L$ $\psi$ $C_e$ $C_L$ $C_L$ 3 8.02- 8.07- 1015 .01701 .01 .0131 .0373 .5402- 3.99096 .0956 .039901 .01 .0131 .0373 .5402- 3.99096 .0956 .03901 .01 .0131 .0394 .0011 .376 .1069 .06901 .01 .0101 .0394 .0011 8.29 .916 .1731 .07701 .01 .01 .00110389 .15 .15 .15 .15 .15 .15 .15 .15 .15 .15	300	יסננט איזאט	THENSE	ATAC TANK		FINE STAN	'n		rest 345-0	Pro.	1/06/62
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		FEED WIND	I DINNEL &	INAL DATA		1	n		-	•	120.
8.07-       .186-       .1015       .017-       .01       .0131       .0373         3.99-       .096       .039-       .01       .01       .0137       .0394         .11       .376       .1069       .060-       .01       .0101       .0394         4.21       .636       .1300       .069-       .01       .01       .0101       .0389         12.36       .1162       .2329       .076-       .01       .01       .0011-       .0389         16.45       1.399       .3271       .068-       .01       .01       .001       .0200         20.42       1.331       .3973       .069-       .01       .01       .01       .0143         20.42       1.273       .4573       .089-       .01       .01       .0129       .0413	ä	υ	σ		Co	Ğ	<b>&amp;</b>	÷	Ç	75	ပိ
3.99096 .0956 .03901 .01 .0101  4.21 .376 .1369 .06901 .01 .0101  8.29 .916 .1731 .07701 .01 .0011-  12.36 1.162 .2329 .C7601 .01 .0011-  16.45 1.399 .3271 .06801 .01 .0083-  20.42 1.273 .4573 .08301 .01 .0129	, L)	8.02-	8.07	-186-	.1015	.017	.01	.01	. 1610.	.0373	-020-
4.21 .536 .1300 .06901 .01 .0101 8.29 .916 .1731 .07701 .01 .001 12.36 1.162 .2329 .C7601 .01 .0032- 16.45 1.399 .3271 .06801 .01 .0083- 20.42 1.273 .05901 .01 .0083- 3.98103 .0962 .03901 .01 .0129	ິທີ	4.02-	3.99-		9560.	.939-	10.	•01	.0137	604C · .	-650
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8.29 .916 .1731 .077— .01 .01 .0011— 12.36 1.162 .2329 .076— .01 .01 .0032— 16.45 1.399 .3271 .069— .01 .01 .0083— 20.42 1.273 .4573 .083— .01 .0129 3.98— .103 .0962 .039— .01 .0129	0	4.01	4.21	•636	.1300	-690•	•01	•01	-0024	.0402	-910-
16.45 1.381 .3973 .05901 .01 .0032- 16.45 1.381 .3973 .05901 .01 .0083- 20.42 1.273 .4573 .08301 .01 .0129	1. turn.	8.01	8.29	.916	1731	-1700	•01	•01	.0011-	.0389	210.
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20.42 1.273 .4573 .08301 .01 .0083- 3.98103 .0962 .03901 .01 .0129	ัต์	16.01	16.45	1.399	.3271	-0690-	• 01	• 01	.0073-	.0423	.015-
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Pr $\alpha_{\rm f}$ $C_{\rm fl}$	×.	PEED WIND	THANE	FINAL	DATA		POECE ARES STAB	ŋ		141 343-0	H	1/06/62
a <sub>1</sub> b <sub>1</sub> c <sub>1</sub> <th< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>8</th><th></th><th></th><th>•</th><th>120.</th></th<>								8			•	120.
.00       .13       .417       .0936       .149- 12.01- 12.010290       .0324         .00       .12       .369       .0996       .101- 3.03- 3.030290       .0339         .00       .11       .374       .1074       .069- 4.01- 4.010091       .0394         .00       .11       .374       .1074       .0640000       .0076       .0391         .00       .11       .374       .1019       .061- 4.02- 4.02       .0003       .0407         .00       .12       .399       .1019       .083- 8.02       .01410441       .0441         .00       .13       .419       .1005       .122- 12.01       12.01       .02860460         .00       .11       .373       .1043       .072- 4.02- 4.02014       .0366         .00       .11       .373       .1043       .072- 4.02- 2.014       .036014	E	ı, D	8		5	g	ر"	ψ.	4	5	1/3	ပိ
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			,			FORCE ARES	13 STAB	20		ns 243-0	9116	7/06/62
Š	OW-SPEED WIND JUNNEL FINAL DATA SHEET	D IONNEL	LINAL	DATA	SHEET	MOWENT AXES				0-74: NO	-	120.
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0	16.01	16.44		.357	34	3444	.126-	8.00-	8.00-S	•020	•0126	-137-
1.7	16.01	16.44	~	.396		3366	-069-	4.01-	4.01-	.0044	.0263	-770-
5	16.01	16.43	, =	.406		3317	-790.		• 03	-0500.	.0416	-0110-
เก	16.01	15.45	<b>رم</b>	.408	.33	3315	-071-	4.02	4.02	.0211-	.0515	.047
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19	16.01	16.44	3 %	.534		3361	.153-	12.01	12.01	.0445-	.0612	.170
2	16.91	16.13		•352	• 34	3463	-129-	8.01-	8.01-	.0217	.0148	-136-
23	16.01	16.44		1.379	.34	3449	.134-	12.02-	12.02-	.0350	9600	-208-

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•		OW-SPEED WIND JUNNEL FINAL DATA SHEET		MOMENT ALES 57 A.3	7		D-671 HO	•	120.
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	16.44	1.384	. 3445	-111-	3.01-	9-01-	•0324	-0578-	-104-
	16.45	1 -417	.3301	-075-	4.00-	4.00-	.0248	.0540-	-190
- 1	16.45	1.407	.3334	.071-	00•	-00•	.083	-6940-	• 010
	16.45	1.408	.3350	.084-	4.02	4.02	.0115-	-0389-	- 386
	15.45	1.403	.3440	-128-	6.02	6.02	• 0220-	.0301-	. 146
	16.44	1.389	.3445	179-	12.01	12.01	.0328-	-6197-	-202
	16.45	1.410	.3328	.072-	. 10.	• 01	.0132	·C467-	906
:	16-46	1.418	.3304	-074-	4.02-	4.02-	.0259	.0532-	.062-
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OW-SPRED WIND IUNNEL FINAL DATA SHEET MOMENTARE STAB $\frac{1}{4}$ $\frac$							PORTE ALES	rs STAB	<b>6</b> 0	25	ип 343-0	41	8/17/62
$a_1$ $a_2$ $c_1$ $c_2$ $c_3$ $a_4$ $a_4$ $c_4$ $c_4$ $c_5$ $c_4$ $c_5$	OW-SPI	ED WIND	IONNEL	HINAL	DAIA	SHEET	MOMENT !		8		EVE 174-0	•	120.
.01 .13 .399 .1013 .083- 8.00- 8.000136 .047401 .13 .387 .1064 .06200 .000085041401 .13 .403 .1086 .103- 8.02 8.02 .0297039901 .13 .403 .1046 .103- 8.02 8.02 .0297037801 .13 .403 .1046 .103- 8.02 8.02 .02970378-	<b>.</b>	, , , , , , , , , , , , , , , , , , ,	8	* * * *: •	2	င်	)	် ပ	ψ.	À	<b>.</b> 5	3	ບ
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	<b>44.74</b>	. 11	an artisa	A 271			• ***
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30	COCCO WINE	THUME	TOW CORES WIND THUNE FINAL DATA CHEST	٠.٠	NATS STAB	ລຸ		333-0	i	20/00//
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e,	10.01	16.31	.975	.1495	.v83-	1		75.00	1640.	.178-
4)	16.01	16.31	*96*	.1612	.050	0.02-	d.02-	•0180	,-5820°	. 292-
** r=	10.01	15.31	.953	.1620	-024-	4.02-	4.02-	9690	· 0526-	.034-
	16.51	16.31	. 964	.1574	-120.	.02-	-20•	.5001	.0455-	.015
13	16.91	16.31	026	.1526	-020-	4.03	4.03	-0500.	.C400-	.075
" <b>(</b> () <b></b>	16.01	16.31	*96*	1567	•058-	6.00	8.00	.0138-	.0347-	.128 ;
-	16.01	16.31	.975	.1574	-160-	12.00	12.00	.0277-	-0326-	.192
				Arracy (	4		V - U	) (v 4 of		- <b>1868</b> (

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3	CPEED WIND	THINNE	OW COSED WIND THINKS SHALL DATA CHEST		FORCE ALES STAD	ַם,	, <del>'</del>	no 343-0		7/05/62
			TIME PAIL		MOMENT ATTS STAS	i.		179-0	•	120.
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0	• 05	•05	-026-	.0306	110.	4.02-	4.02-	4900-	.0023-	-050
11	.01	.01	-120-	.0308	.023	-10*	-10.	.0027-	-2005-	-100-
13	-02	•01	-036-	.0323	.023	4.02	4.02	-6200	-0023-	.042
<b>S</b>	10.	.01	-020-	.0305	200.	3.00	8.00	-0101-	-0000	. 287
17	.0.	. 01	-400	.9267	.026-	12.00	12.00	.0167-	-2012-	.150
19	.01	• 00	.034	• 9325	010	00.4	4.00	-0027-	.0033-	.042
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3	CDCCA WIND	THINNE	OW COCCO WIND THINKS CRIME DATA CUES		SIAB	ם		243-0		20/00//
		LONNEL	נושאר האוצ		MOMENT ARES STAD	20		191-0	-	1.00
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(1)	16.00	16.30	*96*	3551.	-5.7	12.00-	12.00-	.0362	-0064	-155
ัก	16.00	16.29	. 949	.1440	0	9.05-j	3.02-1	1 2703.	9600.	-114-
<b>P</b>	16.01	15.30	£6.	A STATE OF THE STA	3, 3	4.02-	4.02-	£000.	.0087	-096.
0	16.00	16.29	.927	1398	-210.	.0.	-01-	LZ0C.	.0166	-013-
1.1	16.01	16.30	.929	1380	-013-	4.00	00.4	6810.	.0237	.044
TO T	16.00	16.29	.937	1354	.936-	9.00	3.00	.0252-	.0277	.102
	15.00	16.29	940	.1371	-068-	12.00	12.00	.0354-	. 0304 i	.159
1	16.00	16.29	.945	.1333	.052-	5.08-	-20°	. 6229	.0108	136-
10	16.00	15.30	.353	1329	-960.	12.02-	12.08-	: 1920.	.0088	-201-
21.	16.30	15.29	496.	. 1465	-690	9.01-	6.01-	. 0032	.0032	-112-
23	16.00	16.29	.949	• 1430	-364-	8.02-E	8.02-	1700.	.0051	-118-
								10	a e	

3	China distant	THEORY	Chief Days		MC AES - STAB			im 343-0	# 1	1/06/62
	-SPEED WIND	IOWACL	LOW-SPEED WIND TUNNEL FINAL DATA SHEE		MORERE STAR	e e	,	152-0		120.
٤	ď	b	ບ	ဝ	E C	ψ	À	C.	75	ပ
n)	15.00	16.30	996	.1529	-960.	12.02-	12.02-	. C308	+0275	-505-
_	16.00	16.30	990	£651.	-070-	6.62-	3.02-	9100	.0232	-120-
•	16.01	16.30	136.	.1577	-039-	4.00-	-20°	-000-	.0276	-990
=	16.03	16.32	.938	.1549	.014	00	-05-	.0056-	0379	-120.
13	16.03	16.33	.954	1567	-510-	4.02	4.02	-26:00	* 0445	.040
35	16.03	16.33	956	0151	.036-	8.01	8.01	-0292-	.0466	.090
~	16.03	16.33	996.		-072-	12.01	12.01	• 0 385-	.0470	.152
6	16.03	15.33	.958	. 1506	-051-	3.01-	3.01	.0178	.0200	-144-
2	16.03	16.33	696*	.1584	-890.	8.01-	8.01-	. 50073	.0252	-126-
23	16.01	16.02	.051	-6700	.010	12.02-	12.02-	-1000	-0001-	- 000
27	16.01	16.31	.963	.1526	0	12.01-	12.01-	.6307	•0279	-202-
25	15.01	16.31	.960	.1512	-180	10.01	10.01	.0217	.0288	-170-
5	16.01	16.30	.931	.1498	-090-	-00°8	9.00-	. 0177	.0302	-141-
33	16.01	16.31	9	.1535	-0440	6.01-	5.01-	5900	.0292	-103-
35	16.01	16.30	.952	1326	-620.	4.02-	4.02	• 0039	.0316	.075-
37	16.01	16.30	.941	.1556	.021	2.00-	2.00-	-2000	.0352	-048-
39	16.01	15.30	.939	.1561	-014-	.00	• 02	-0063-	.0380	-010-
4	10.01	16.30	.940	1510	-026-	4.01	4.01-	.0074	.0323	.079-
43	16.91	16.30	.946	.1564	•031→	4.01-	4.01	.0033	.0313	-070-
				)n • 2					331	
										-

3		- CANAL	2 122	10.4	HARTE STAD	10		343-0	and a	1/06/62
	-SPEED WIND	IONNEL	LUM-SPEED WIND LUNNEL FINAL DATA SHEET		MOMENT AND STAE	3)	5.5.5	163-6	•	120.
٤	a g	B	l 'b	c <sub>o</sub>	5	φ.	*		1 3	ပ္
۳۱	6.01	8.16	503.	.0440	-990.	12.02-	12.02-	1050.	.0076-	-192-
wi .	6.00	8.15	.460	\$ 0530	-034-	-30.8	6.02-	.5123	-1600	-601.
_	8-01	8.16	.476	1250	-600-	4.01-	4.01-	6010.	-2005.	-190
o.	8.00	8.15	.470	.0532	400.	.02-	- 30 •	K100.	1 100.	.002
Ξ	3.02	9.16	975	•0525	-100.	4.02	4.02	-4010.	6000	130
0	8.02	8.17	.483	9050	-160.	8.00	00.0	-1910	.0027	.107
13	8.02	8.17	20 Si .	.0489	-190.	12.01	15.01	.c269-	.0036	171
17	8.02	9.16	.475	4680.	000.	2.02-	2.02-	9,60.	65500.	-620•
19	H-02	8.16	.475	.0485	-1110.	-00.9	6.00-	.0166	9760	-286.
2	8.01	8.16	.461	. 9483	.031-	8.02-	8.32-	i colo.	-6700.	-611.
23	3.00	8.15	.491	.0476	-150.	10.00-	10.00-	.0239	-2860	-151-
25	3.02	9.17	9476	.0403	-025-	7.02-	7.02-	1710.	-8100	-103-
			•	-		-	-			4

3	שננט השניט		COW EBEED WIND TINNEL CHIA! DATA CUE	Ł	MERCE ARTE STAB.	•	6	ия 343-0	E M	7/36/62
(-E)		וחששבד	TINAL DAIA		MOMENT ATES STAR	B	•	1:30-1	•	120.
٤	αľ	8	ک	ပီ	E U	W.	÷	ů	, 7 <sub>5</sub>	ů
n-	B.02	8.18	.508	.0459	-071-	12.02-	12.02-	. 6312	-1900.	-187-
ำลัง	3.02	8.17	76¢*	.0474	.052-	10.01-	10.01-	8273.	-6900.	1.30-
, , , , , , , , , , , , , , , , , , ,	3.02	. 8.17	. 485	.0485	.034	B. 02-	3.02-	•01ES	.0064-	-116-
0	3.02	9.17	-482	.0465	-015-	6.02-	6.02-	. 6162	-5000.	-000
 — —	3.02	9.16	.475	.0508	-003-	4.01-	4.01-	. 02124	.0083-	.062-
<u>C1</u>	8.02	3.16	. 468	.0527	100.	2.06-	Z-00-Z	.0340	026-	.020-
້ ຫຼື	10.0	3.15	.472	.0531	•000	00.	-00.	.0012-	-6100	000
117	3.02	3.16	92.40	.0534	.001	2.00	2.00	· C030-	.0016-	025
5	6.02	5.17	.461	6250	-003-	4.01	4.01	-0105-	. 6000 ·	• 0.50
. 21	3.02	3.16	.473	•0526	.014-	2.01	0.0	-0130-	.0020	• 076
23	3.02	2.17	.485	.0512	•032-	8.02	8.02	.0158-	• 0026	. 107
25	8.01	8.16	.489	.0306	-050-	10.01	10.01	-020-	.0031	.136
. 27.	d.01	8-16	(30)	.0493	.065-	12.02	12.02	. C268-	.0035	171.
23	8.02	8.16	674	.0342	•003	2.02	2.02	.0018-	.0019-	•024
	3°05	9.17	.483	.0492	•033-	æ•00-₽	E.00-	. 1919.	-2021-	-121-
3	6.02	3.17	.481	.0496	.023	7.02-	7-02-	.0178	.0075-	-104-

C.

	FOCED WIND	THINNEY	CHILD ATAC LAND THINKS CHILD DATA CHICA		PRECIABLE STAB			WW 343-0	Ī	7/05/62
	-STEED WINE	TOWNS I	TIMAL DAIA		MOMENT ALES STAD	0		134-0	-	120.
2	a	δ	CL	CD	C E	4.	A.	ů	3	ပိ
,,,	3.01	9.10	00€.	•0433	-390.	12.03-	12.03-1	6353	-1800	100
	3 B C2	9-17	• 488	5190.	-150	10.02-	10.02-	.0262	-5700-	-165-
, , ,	20.8	9.17		8440	-820.	3.02-	A.02-	• 0225	-2800	-124-
٥	9.02 50.02	8.17	-478	.0489	.015-	6.02-	6.02	.016	-5900	-000.
	3.02	8.16	194.	.0502	-301-	-00-T	4.00-	.0121	-6800•	-190-
(*) **	8.02	8.16	1940	.0510	900-	2.05-	2.02-	.0061	.0036-	.033-
2	8.02	8.16	.475	.0328	900•	2.02	2.02	.6061-	-9000	.029
23	30.6	8,16	.472	•0514	-100	4.01	10.4	.0108-	.000A	. 950
25	5 3.02	8.16	476	.0497	-015-	6.01	6.01	.0145-	.0015	.084
27	20.02	8.17	.484	.0498	-031-	8.02	8.02	-0174-	.0028	.110
2	8.02	8.17	4	-0481	-048-	10.02	10.02	-0242-	.0038	• 144
6	8.02	8.17	-504	-0481	-590-	12.01	12.01	.0293-	• 0030	.175
							-			

3	נפננט או					tout and STAS	A5.		ин 243-0	1	7/00/52
5	LOW-SPEED WIND JUNNEL FINAL DAIA SHEET	מסו מצו	NEL FINAL	L DAIA			STAB		3-1951 Ma		. 120
E	ď	ъ		ئ	ဌ	(C <sub>m</sub>	ψ	e e	e C	73	ပ
TO T	3.02	-	8-17	.503	.0452	-000-	12.02-	12.04-	. C235 ;	-4800.	171
ก	8.01	<b>6</b> 0		.460	-0462	2 . CZB-	8.02-	8.02-	.0124	-9903	-:09-
7	8.31	٠	8.15	. 474	.0513	-200.	4.02	4.02-	. 5027	• 6638-	-349-
Ü.	8.00		9.14	.469	.0530	.J 786.	00.	• 20-	0116-	:-0CCJ+	0.00
P-4 P-4	8.01	<b>3</b> 0	138	467	*200·	-200-	4.22	4.02	.0229-		57.0
13	B.C1	. 17.14	8.16	.481	96vů.	-620° ; 8	9.01	3.01	-0318-	. 0000	.:29
ra minuta		tø gvæ	r Jhas i 4				13.1° au2°	14	· ·	و هوه د	
4 #			, ,	· @L B				a 14	LF9L		
					,			1	~	•	

2	DICK KIND	THANK	-	71.14	-					0101		1000
	LOW-X-LED WIND LUNNEL FINAL DAIA SHEE		Take.	MIN	NATE.	MOMENT ARES	STAU	a		0-901 mm	•	: 60
E	αľ	Ö		Cı	Co	C	E	4.	4	5	3	ပိ
ເລ	9.01	91.6	Famili	478	1940.	area.as.	-990	12.02-	12.02-	.3172	• 0076-	-171-
~	0.30	3.15		.477	10487	alang to a	.020-	3.02-	3.02-	. Econ.	.0001-	-760.
6	5.01	3.15		.470	.0540	bi Bail	-200	4.02-	4 - 52 -	-6000-	-0031-	-950-
11	00.0	8.14		.468	.0558	s returns, s	. 500.	-05-	60	.0237-	6000.	.025
6	8.02	8.16		47.9	.0546	v1	3-800	4.01	10.4	-0345	. 0034	(000
5	3.01	3.16		.483	.051	13. No	-020-	8.00 8.00	8.03	-0960-	1900-	.150
7	 	9.16	·	300	.0531	e eeu, vitski	-350	12.00	12.00	.0549-	9900	.203
			-				-					;
-							SWTE			# 1 * <b>.</b>	n, a M din dal	
			<b></b> u	•			**************************************	,	. Lave	, , , ,	* 14.31	
							-		LTW T	****	·	-

95 776	CES WALL	Times			•	STAR STAR	80		nsr 343-0	5	7/20/62
X-M0	OWNER WIND TOWNER FINAL DATA SHE	D TUNNEL FINAL DI	FIRAL	DAIA	·	5			157-C		120.
E	ď	b		, C	1	C <sub>D</sub>	$\psi_{\mathbf{t}}$	¢	C	73	3
e,	9.01	9.16	۰۰ معی ۱۲۹ ۱۳	-505	0540	-690-	12.02-	12.02-	.0:32	1-0763.	.162-
ຄຸ	0°01	3.16	• ~	.491	9640.	-026-	4.02-	3.02-	2100.	-8500	-000
~	10°0	8.15	. ··	.471	.0554	-100	1-1C • 7	4.01-	-2010	-0327-	.031-
Ö	3.00	91.6		.471	1 .0572	200.		• 01	-5274-	.0010	.035
~ ```` • <b>4</b>	5.02	9.16	L 7 . a d	.471	.9561	-505-	2.01	0 9	-9650.	Br.co.	1000 ·
13.	5.01	61.3	A- 1	585.	9450	, 92C.	8.01	d.01	-1010.	6903	. 150
ቃ	4.02	8.17	, 	£05.	.0553	.067	12.01	12.01	-06150	0200	632.
-	UI BA						د وج				d

3	W GERT		THE PARTY WIND THE PARTY CHINA CHIEF WO		2 4 2 4 6		PORCE ANTS	STAB			131	181 343-0	<b>BL74</b>	7/06/62
5	STEED !		IONNET	TIMAL	DAIA	HEEI	MOMERT ARES	STAB			ž	156-0	-	120.
T	ď		8		Ç	င္မ	ۍ د		4	Ą		ت	75	20
L	graver e			. 1				-						
w		0	• 00	MX.Ap.	-014-	.0377	-5009-	-5	6.03-	E.03-		0152	-0036-	116-
~	0	-00	-01-		• C34-	.0405	5 .023	سر <del>س</del> ت	4.02-	4.02-		9900	-0260.	-170.
0		00	-10.	, mari	-026.	. 7413	3 1 033		0.	10.		::05	. 3520-	-000
11	O	00	-10.		.045-	.0425	5 ( 031	m	4.00	4.00	•	0.047-	-1100.	345
13	<b>O</b>	-00°	00.	*.sw&	-150.	.0407	FG0 - 12 4	უ	00 0	8.00		3105-	-coup.	080
15	aneral referen	-00	.00	. <b></b>	-600	1986.	-520-	(山)	12.02	12.02		C202-	, 4000	. 155
17	0	.00-	00.	A 201	-926-	404C •	900.	 0	4.30	3.60	. p. k/1	-1010	.0010-	1 900.

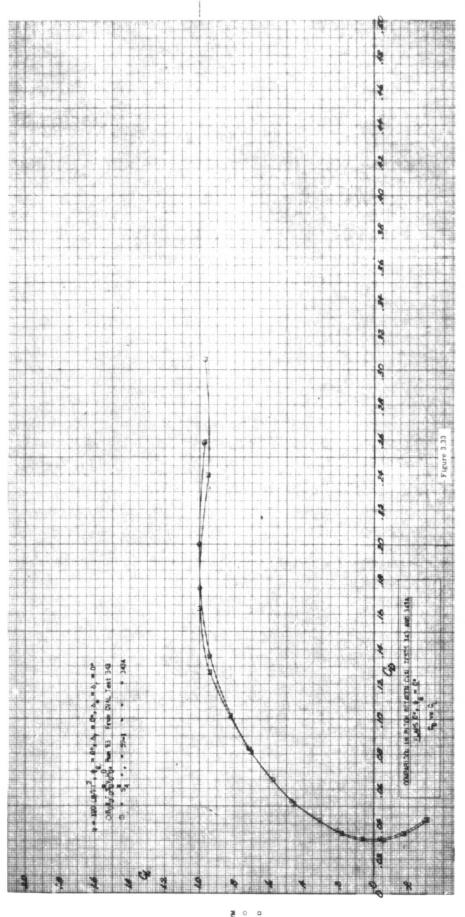
				2	MODEL CONDITION		Good .	PREVIOUS TESTS	TS CVAL	1 343
M 6-350					BAYONETS			WINDSHIELDS	Power	Off St'd
				1	TRUNNION SPACING		None	BOOM TAIL LENGTH		42.27"
RYAN MODEL 1/8-SCALE 5 = 5 =	MODEL SCALE C	RYAN MODEL 143 (VERTIFAN)  1/8-SCALE CONVENTIONAL MODEL  5 = 5 = 5 = 0 for the entire test								
PATE	15		TEST	- B	တို့	°6≯	200			FIGURE NO.
12-8	-	3. W2 FD S4V1H1	<b>,</b>	29.1	0	A×*	0	Set	8.9 8.0	Rot
	1-1	п	11	:	11	=	:		l	3. 51, 3. 53, 3. 55
	6			:	4-	11	11		3	3.51
	~	И	t)		47	•	11		8	3, 51
	\$	11	1	=	8		11		3.	. 51, 3, 53
	2	=	11	=	16	:			3	3. 51, 353
	9		14	2	2-	11	11		<u>.</u>	3.51
	7	=	<b>,</b>	1	Airin	0	••		3	3. 39, 3. 42 3. 47
	ω	-	<b>Y</b> 6	3	2	4	••		<u>.</u>	3.51
8-22	6	=	•	=	12	11			3	3.51
	10	7	=	Ξ	0	-A			3	3. 42
REMARKS		1: Static tare befine set with manometer 29.1" Alcohol = 1	lcohol,	Sp. Gr.	. = .785		NOTES: 1. Consmodel, control sealed.	Consistent with Test 343 on the rol surface gaps were not wings 4, 72, and W3 were com-	Test is were	343 on this not
* *		Run 10: Run 1 repeated with $\psi$ sched. Yaw Schedule "A": $\psi$ = -12 to +12". Pitch Schedule "A": $\alpha$ = -8 to +20".	ed. run 12° by 3 20° by 3	2's.	run in reverse direction by 2's. by 2's.		structed without though there were #0, they were new	structed without deflectible milerons. Although there were movable milerons on wing To, they were never deflected.	ailero	erons. Al-

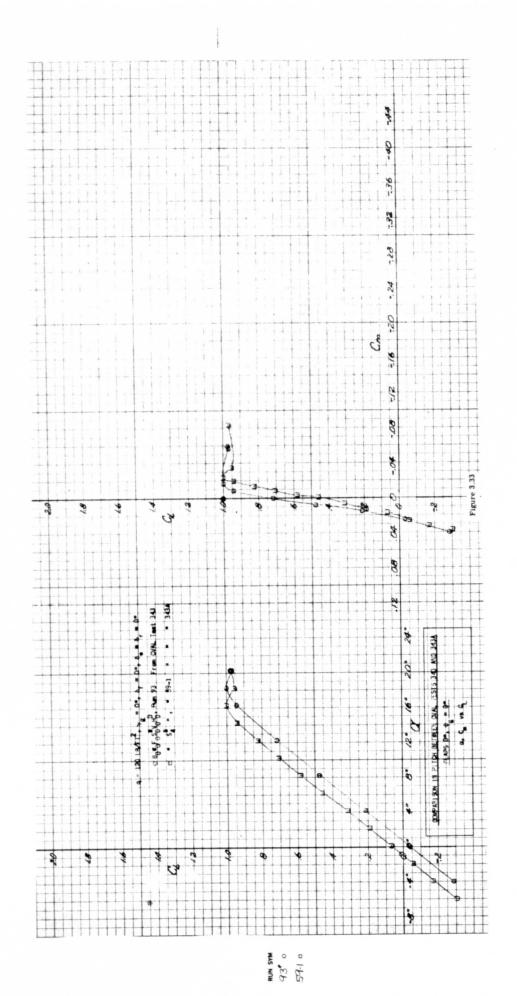
10. ..

1435	RUN	CONFIGURATION	TEST	3	b	6	) <b>4</b>			FIGURE NO.
3-22	11	30 2 FOS 4 V 1 H 3	PS	23.1	A	O	45			3.37, 3.39
	12	-	76	ε.	0	Ą	:			Not mesented
	1221		ju,	:	11	н	:			3, 51, 3, 53 3, 54
	13	=	=	:	-4		"			3.51
	71	-11	=		7	1				3.51
	15	=	=	=	80	=	=			3.51, 3.53
	15	=	=	=	16.	•				3, 51
ì	17	80 W2 FO 52 VO 42.5	<b>P</b> 6	Ε	٧.	0	11			3.39
	18	\$ <del>1</del>	H	=	11		=			3.39
7	19	, o a		:			:			3.39
8-23	ટ	# H 10		:	,	:	O			3.39, 3.42
	21		=	3	"	11		,		3.39
	ເວ	# H3.5	:	=	=	=	=			3.39
	53	" H <sup>7</sup> 2.5	=	=		Ŀ	=			3.39
	24	# H-5.0	Ξ	=	11	11	:		•	3:39
- 3-	25	24 F0 5 Va Va	2	=	0.1	11	=			3.42
EMARI	REMARKS Run 12,	13, Zero shift in K.& R								

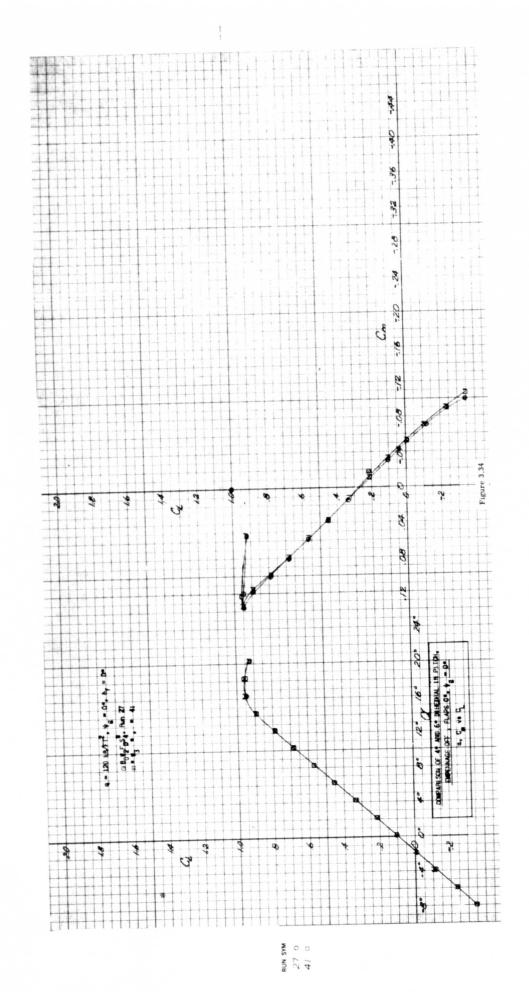
FYGURE NO.	3. 42	3. 34, 3, 39	3. 50, 3. 53	3. 50, 3. 53	3. 50, 3. 53	Fot	3. 50, 3. 53	3. 50, 3. 53	3. 36, 3. 39, 3. 41	3.36	3.36	3. 43	3. 43	3, 43	3.44	3.45		
		Set M. 19										•				·		
82	0	3	:	=	:	· 3	:	:	:	45	=	0	:	3	:	ï		•
<b>6</b> A	0	=	٧	:	••	:	••	••	0	:	•	:	:	:	11	:		5.
$\alpha_9^{\circ}$	٧	:	0	S	16	0	:	8	V	:	:	11	:	:	"			· .
9.0	1.62	:	=	:	:	=	=	:		:	=	:	:	=	=	:		
TEST	P.6	:	۲۶	=	:	:	:		P.K.	=	:	TUPET PIX	:	=	:	à	2,8	,
CONFIGURATION	νο <sup>μ</sup> ς Γο <sup>μ</sup> νο <sup>μ</sup> οο	30W2F05H	-	- 1	-		-		11	20 40F15 1	12 F 5 Y	Equiposition + for + Turits	= + 4 + =	: + J + :	= + + +	$\frac{5}{2} \sqrt{2 \cdot \tilde{\epsilon}} \sqrt{2 \cdot \tilde{\epsilon}} + c_1$	$\alpha_g = 0^{\circ}$ to $20^{\circ}$ by o shift in M	
NU8	25	27	8:3	53	30	ĩ		32	Σ	मु,	35	(A)	13	χ, χ,	ຄ	<u></u>	* &	·.
PATE	(C)															ज (- ()	REMARKS	

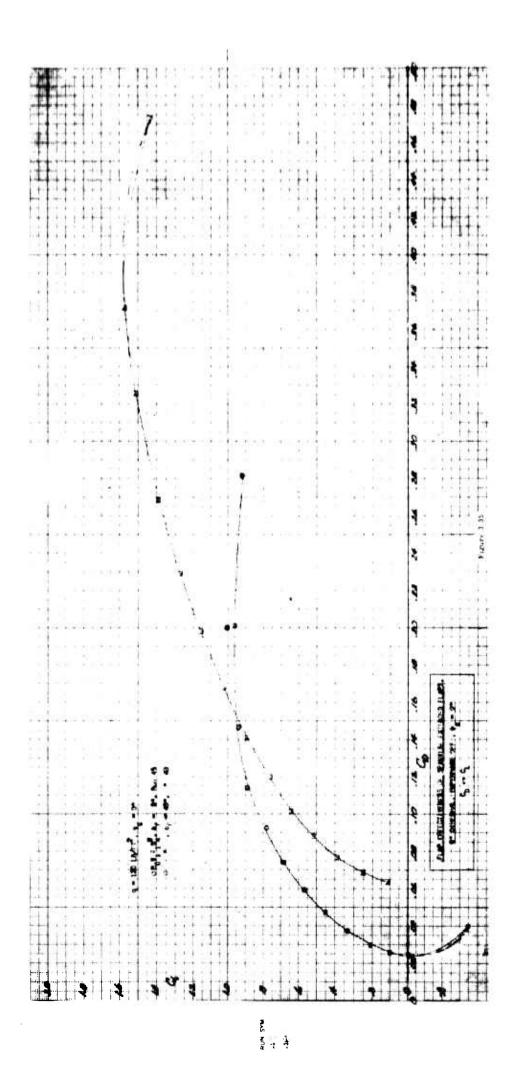
FIGURE NO.	3. 34, 3. 45	ot resented	3.52	3.52	3.52	3.35	3.49	3.49	35, 3, 38	resented	3. 49	3.38	3.38	3.38	3.40	3.40	4		a	. "	
												,			Set M. 's					,	
											<b>J</b> .									s •	•
5°	0	:				:	Ξ		54	:	11	2	3	:	:	:					,
<b>%</b>	0	<		:	:	0	4		0	A	:	0	:	<b>:</b>		:		W			
αô	4	0	:	ω	16	<	O	8	∢	. 8	:	4	:	=	•	=					3
99.0	23.1	=	=	=	-	:	=	:	:	=	:	:	:	=	:	:			3.3		
TEST	٩	Ϋ́c	Ξ	=	=	9	>		4	, <u>}</u> ,	=	<b>6</b>	=	 	=	:					
CONFIGURATION	£043 £052	=	-	1		204 F SW	ī	-	-	-	=	30 W. F. 55 W.	" F6"	" F7"	80W F. SHOH 10	п "К	Run 42 - Zero shift Run 49 - Zero shift				
NUN.	4.1	42	1-24	43	3	45	46	47	4.8	49	1-67	50	51	52	53	54				, 1115	•
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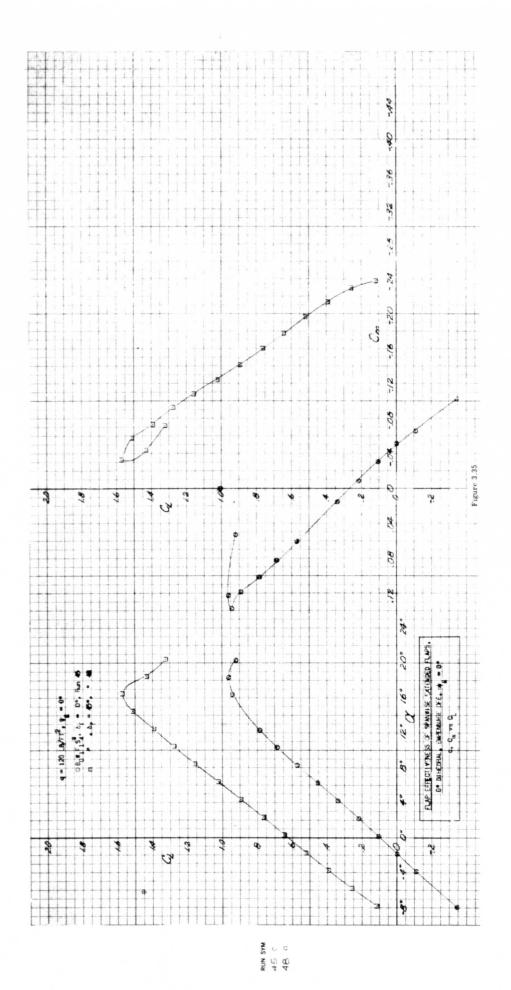




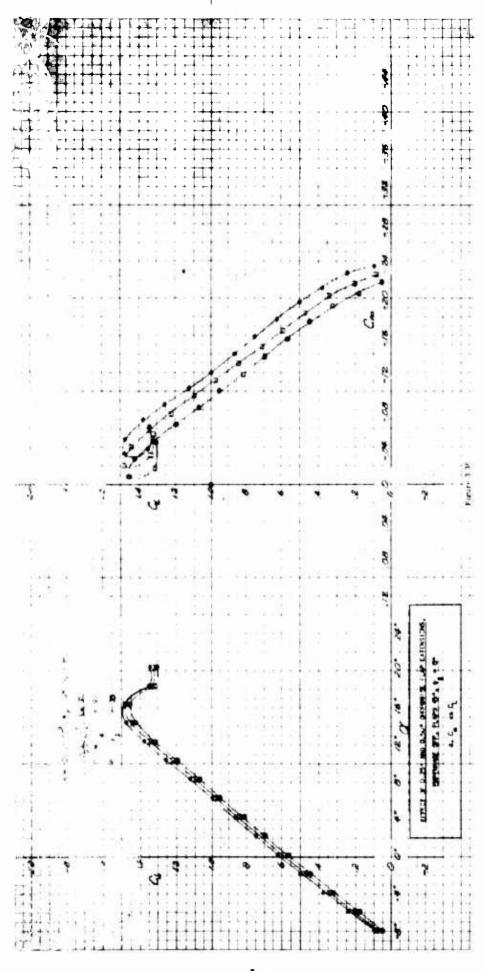
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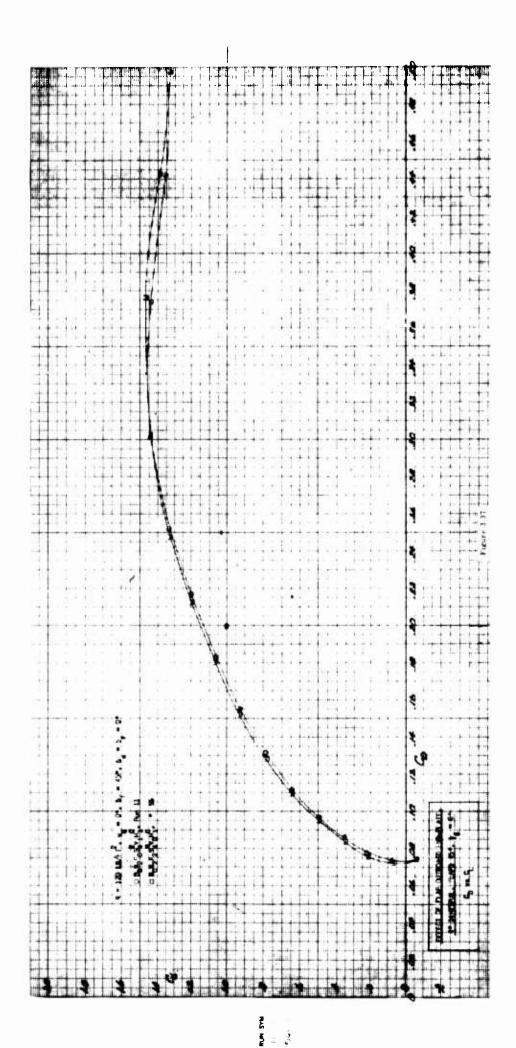


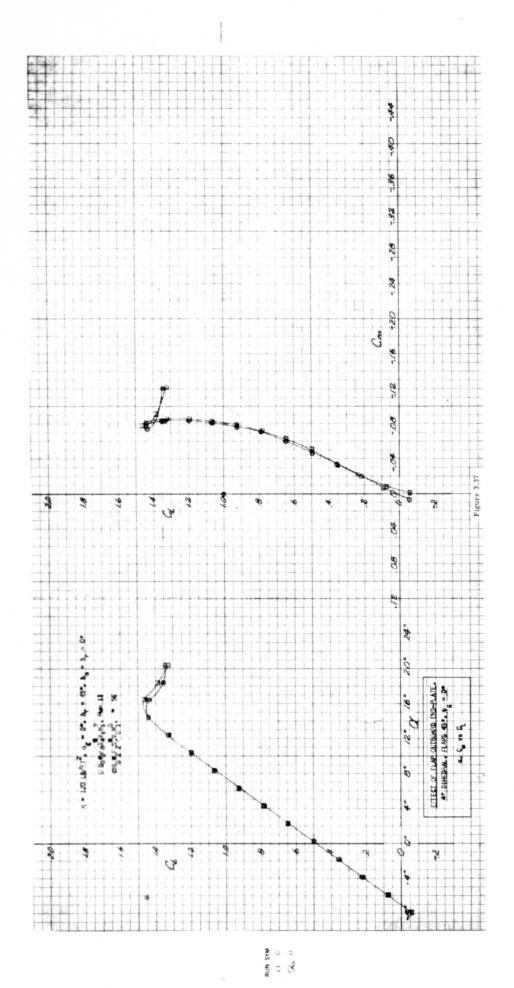




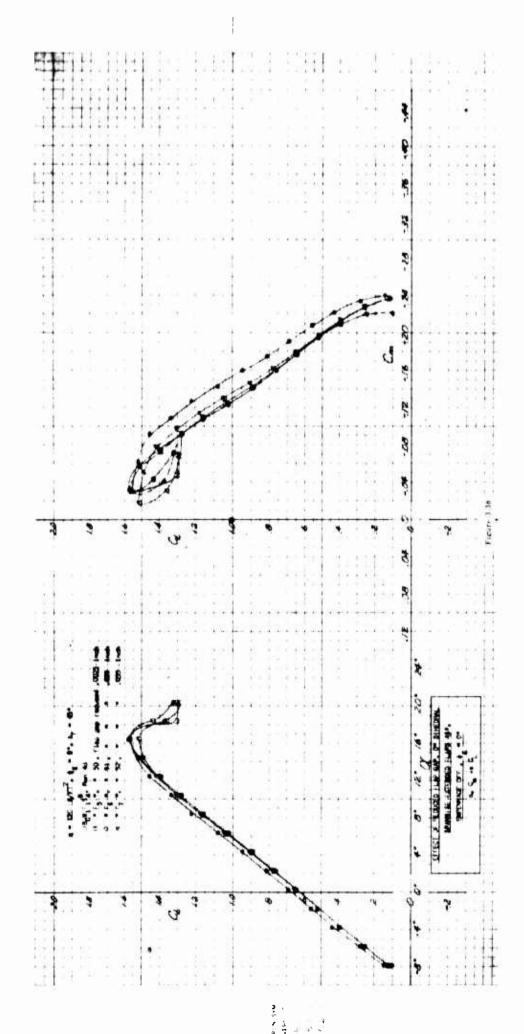
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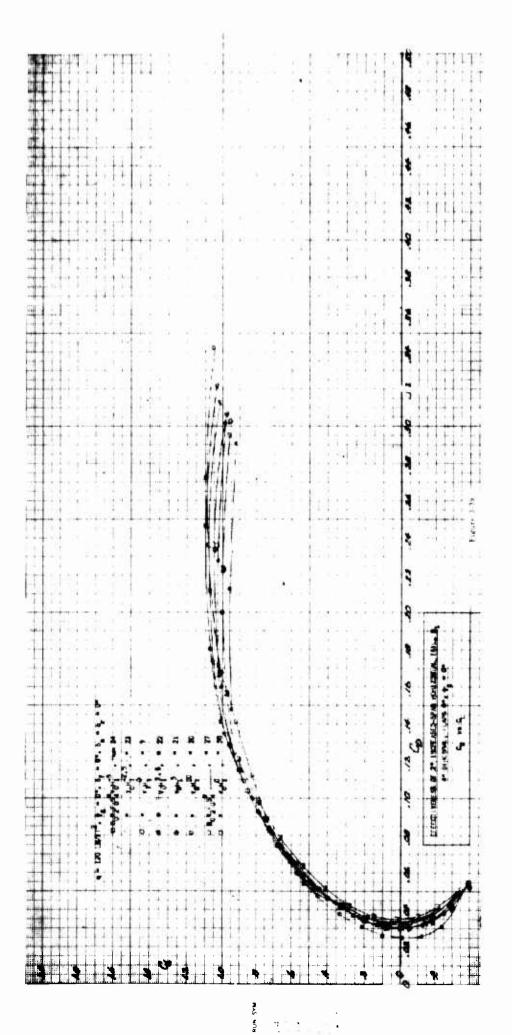




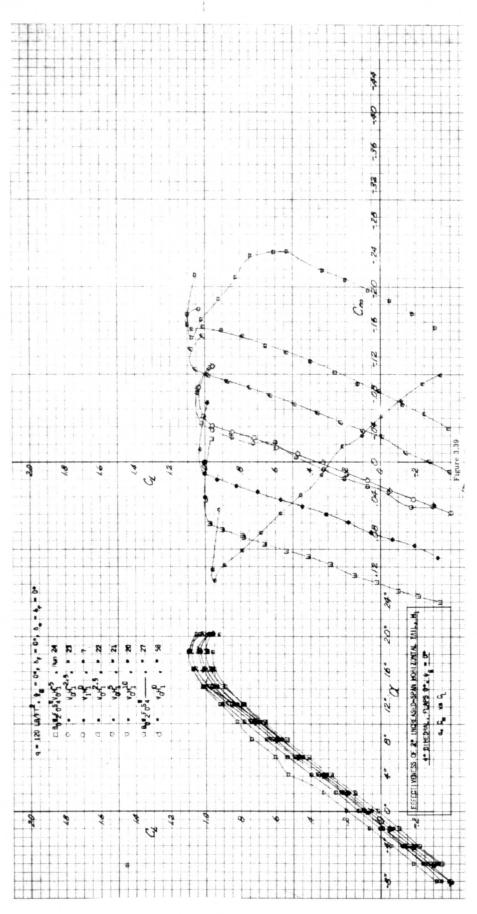


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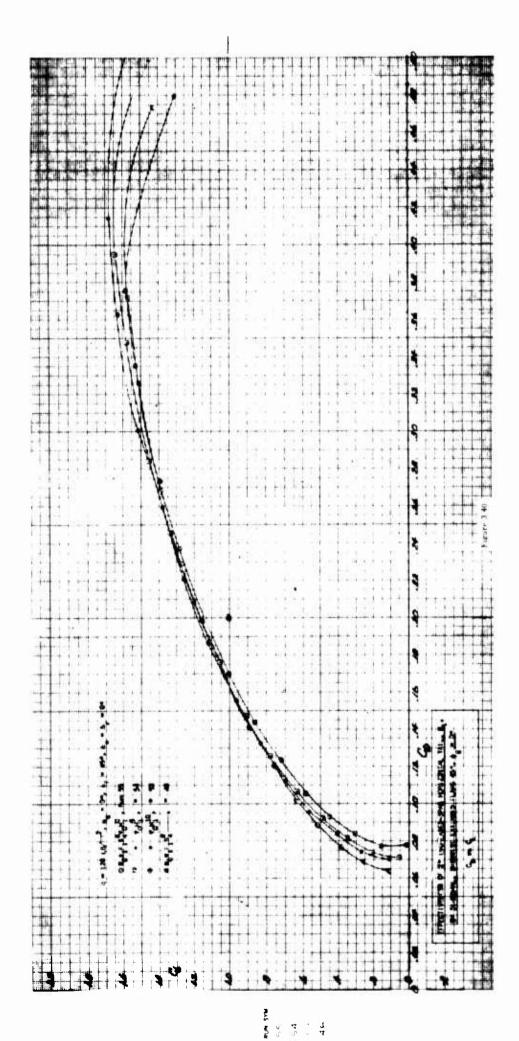
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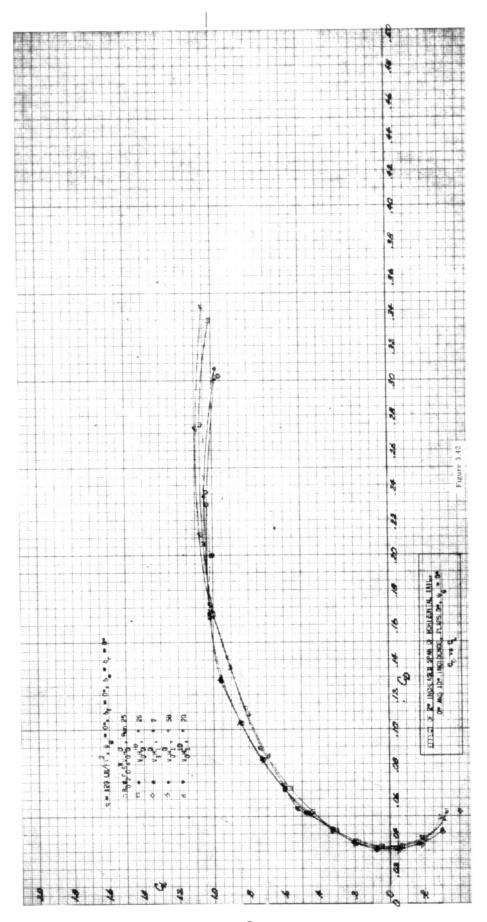
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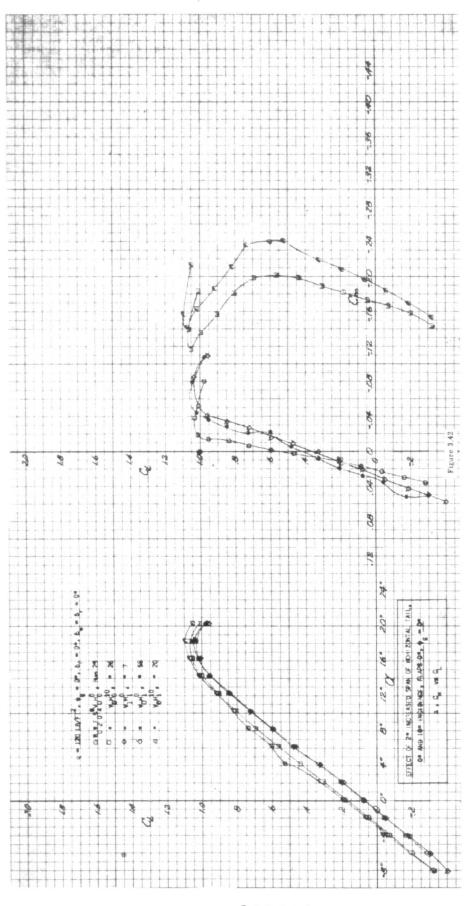
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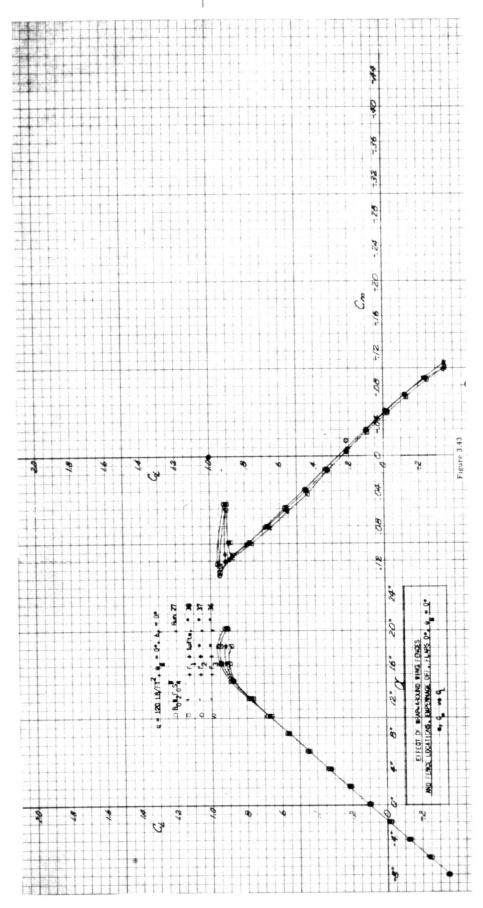


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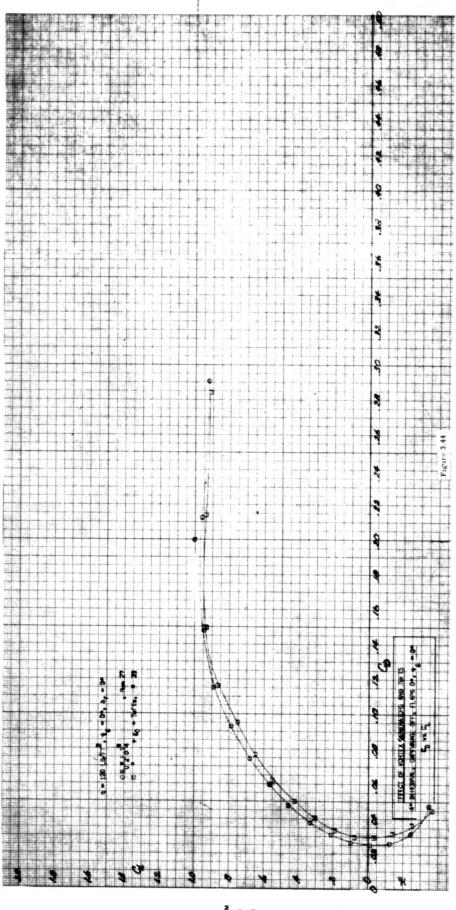
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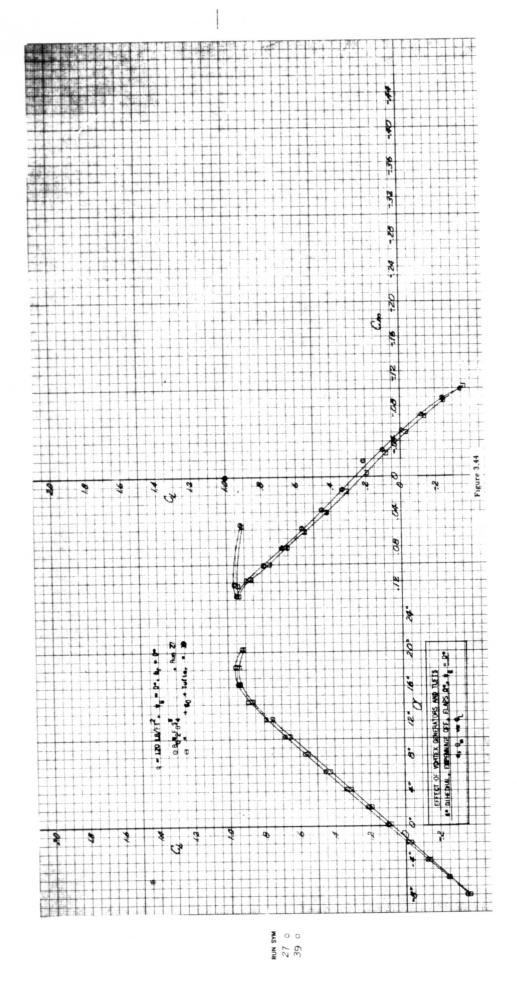
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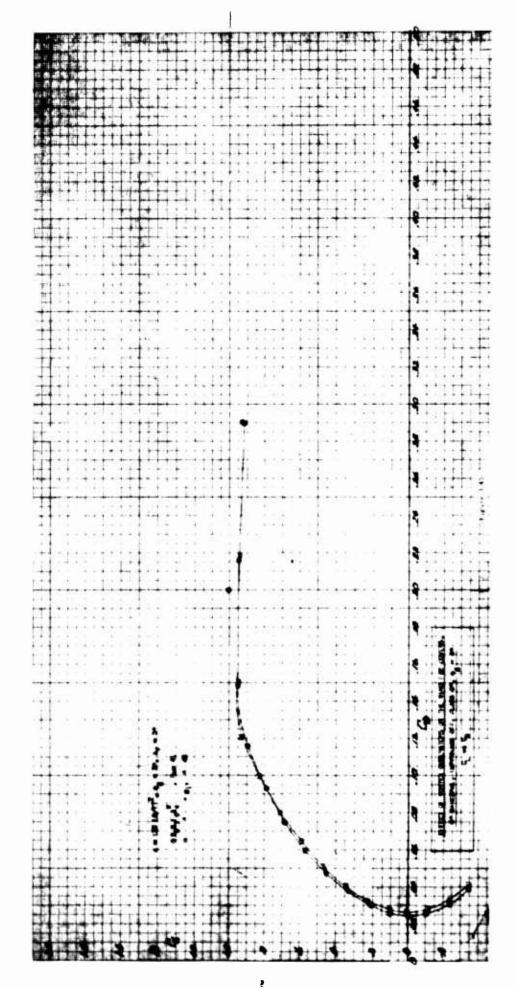


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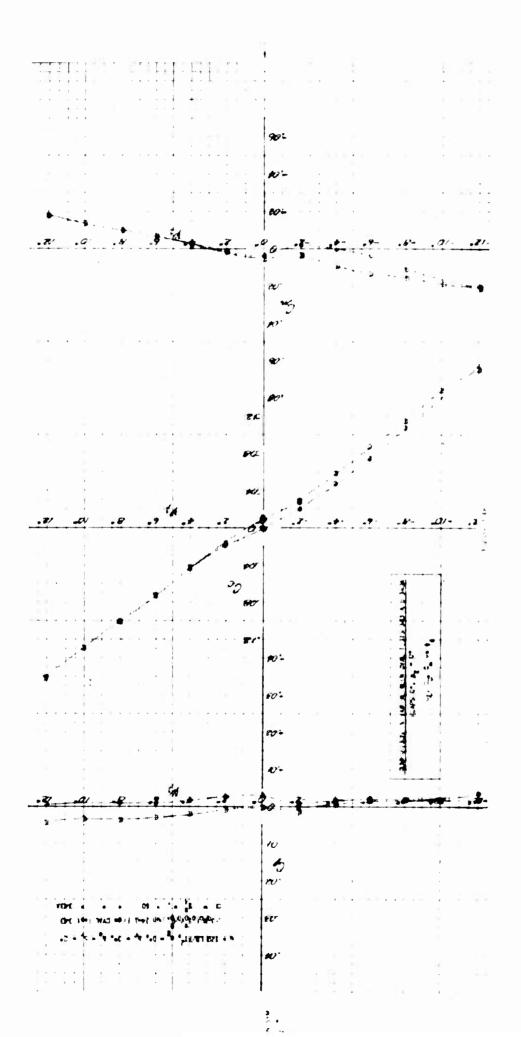
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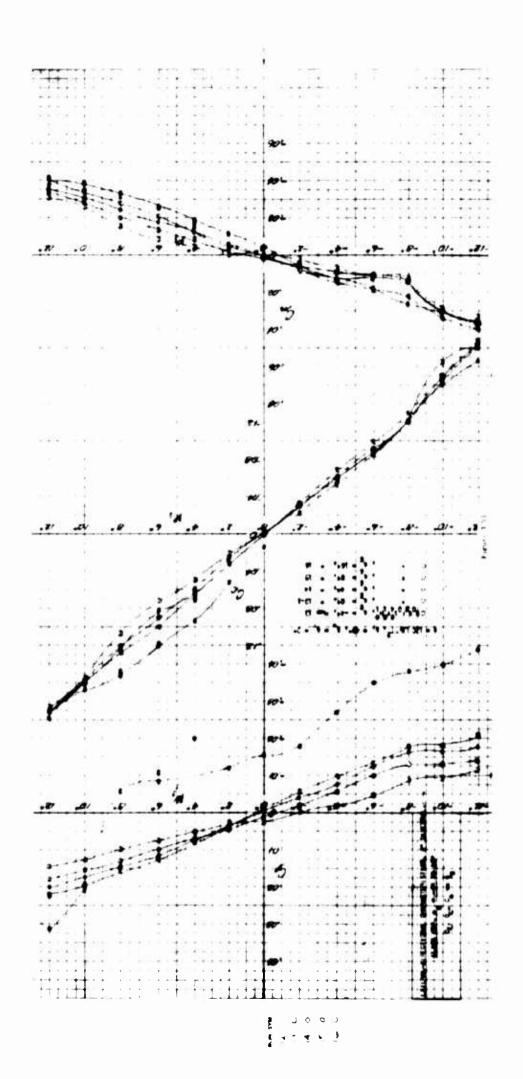
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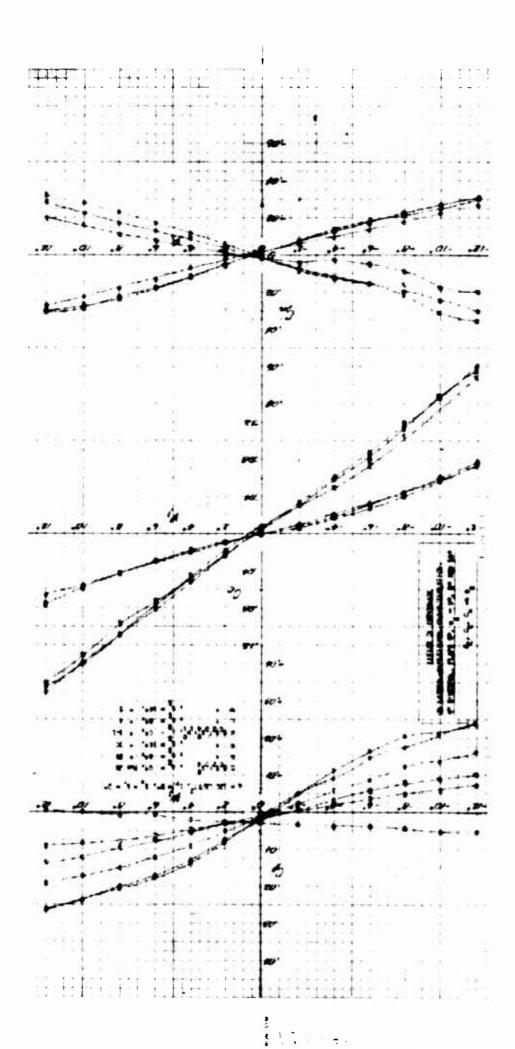
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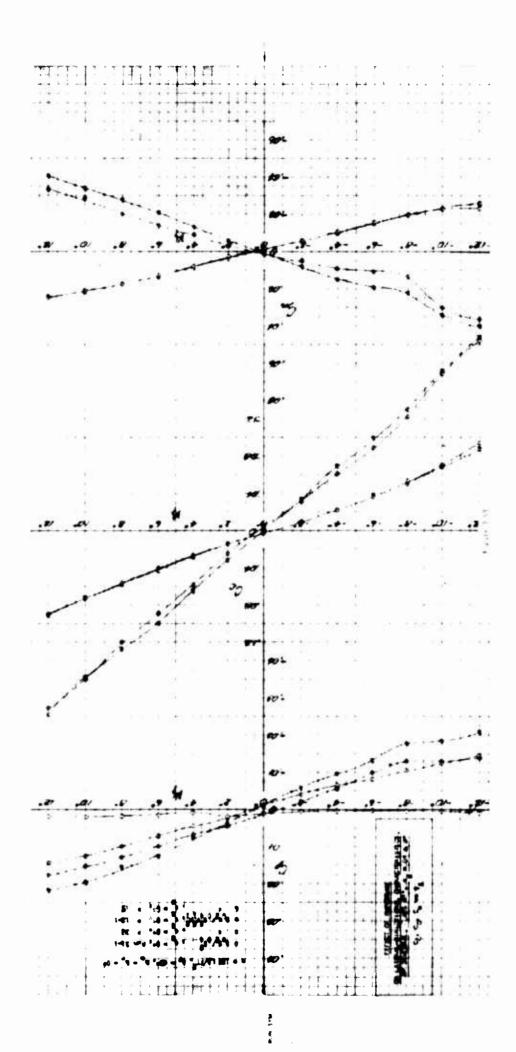


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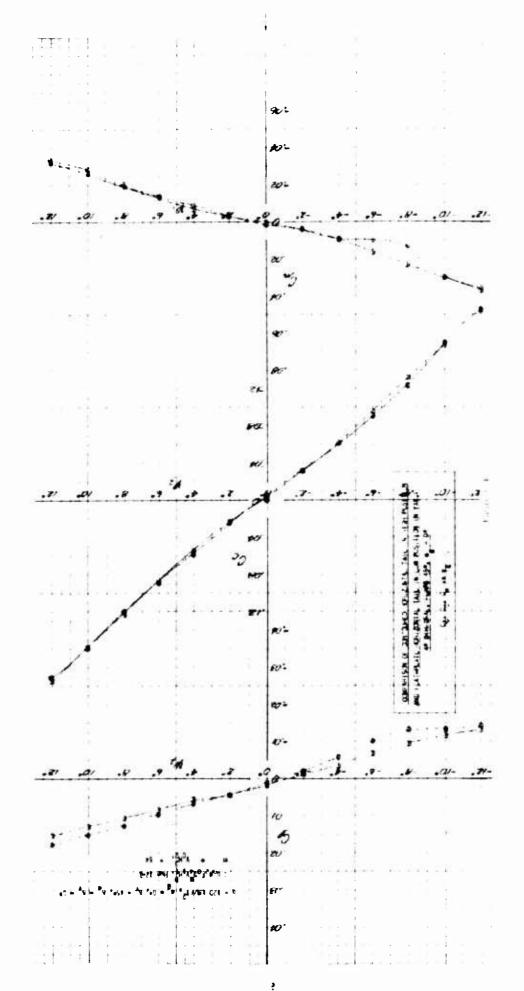
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TABLE 3.4
PHASE 2 TESTS

TABULATED FORCE AND MONENT COSFFICIENTS

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0	8.03	8.21	•	.594	. 9590	-023-	100.	. 60.	• 001€	• 001	-900*
1	10.04	10.26	•	.721	.0829	-022-	-00-	8	.0010	. 1100	-005-
12	12.04	12.30	•	.843	.1037	-020-	-05-	-20-	. 100.	-6000-	600-
13	14.03	14.32	•	.951	.1281	-037-	-05-	-05-	• 0013	- 6000	-005-
•	16.03	16.35	7.	1.017	391.	-045-	-20-	-05-	6000	.0029	-600
5	10.04	18.36	7.	1.043	.2337	-080-	-05-	-20-	.0036-	.0021-	-610.
17	20.03	20.33	•	.073	.3066	-109-	-05-	-20-	-0013-	-0027-	-010-
				<b></b> ,			•		••	•	
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3	PERSON ATAC LAIMS ISMINIT CHIM CERCO WO	TIME			STA Dett	ALIS STAB	•	Đ.	m 343-1		11/19/52
2	CALL MIND	ומאגו	IN AL	AIAU		POWINT AFFE STAB	•	•	G-8	-	120.0
<u>د</u>	o,			ت	g	ڻ ٽ		. 4	٠ ئ	. 73	ر. ن
•	2.04	2.11		.238	.0255	· - 40.	12.03-	12.03-	.0225	-0107-	-174-
<b>n</b>	2.05	2.12		.232	£080°	-037-	10.00-	10.30-	.0201	-6000.	-641.
9	2.05	2.12		.222	.0312	-230.	6.03-	6.03-	.0167	-1600.	-115-
60	2.04	2.10		.208	.0333	-500-	6.02-	6.32-	.0117	-55CC*	-087-
10	2.04	2.10		.205	.0346	-000	4.02-	4.02-	.0093	-0000	-057-
1 1	2.04	2.00		. 189	1560.	•016	2.03-	2.03-	. 9054	-6000.	-035-
13	2.05	2.11		191	•034	.020	-00.	oc.	.0012	• 1 CO •	-202-
13	2.35	2.10		.190	4470.	910.	2.31	2.01	-0100.	.0039	010.
17	2.04	2.10		.198	.0352	. 600.	4.03	4.03	.0083-	. 0068	. **0*
01	2.04	Z.10		•204	.0336	. 001	6.00	6.00	-9000	.0093	440.
0	2.04	2.10		.214	.0334	.010.	9.02	8.02	-0130-	\$110.	. 660.
0	2.35	2.12		.223	.0326	.028-	10.01	10.01	.0172-	ct 10.	.123
, 1 Z	2.04	2.11	1	.242	.6345	,-6°C.	15-01	15.01	-0100	-0132	. 145
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3/2	120.0	)	181-	. 1 4.9- !	.123-	-040-	-150	: 033- :	-100.	7			0	 91	1	<b>-</b>	•		~ •
35/01/11	1.5	ن د ا		-	.12	0	ò	0,3	.00	120.	.957	.085	.116	.145	: 1				
1	•	3	-1610.	-0100	-01510.	-0410.	-6800•	.0052-	-4100.	.0025	. 9266	9600•	.0118	.0153	1110.	** *	/ <b>L</b> .	. 12	
104 343-1	6-6	5	.0335	.0278	.0245	.0169	.0126	. 2700.	₩000	-0056-	-0113-	-0152-	.0211-	.0230-	-0150-	• 1		•	•
	•		12.02-	10.01-	6.03-	A.02-	4.02-	2.03-	20.	2.00	. 10.4	6.03	0.01	10.01	12.01		• •		
•	•	2	12.02-	10.01	8.03-	-20.9	4.02	2.03-	. 2C.	2.00	4.51	6.03	8.01	10.01	12.01	-	**3	art.	
ATTS STAB	STAB	ن. گ	.102-	-680-	.041-	-650.	-100	-680·	-030-	-260	-039-	-640.	-650	-110.	-200-	•••		•	
SHE DAY		3	.1012	. 9001.	2001.	.1027	. 1027	.1039	.1041	.1034	. 1032	.1024	.1002	•1004	.1021	***		^	T
	4140	ا لی	.872	.861	.844	-847	.849	. 94 !	•839	.939	046.	.840	.849	.861	.671			•	
A M			1																1
THOUSE	13440	٥	12.30	12.31	12.30	12.20	12.29	12.29	12.30	12.30	12.29	12.30	12.29	12.31	12.30				1
OW CORED WIND THINNEL CHAIL DATA CUEST	THE THE	່ <b>ນ</b> ອ	12.03	12.04	12.04	12.03	12.01	12.03	12.04	12.04	12.03	12.04	12.03	12.04	12.03				-4
30		£	~	•	•	r	`~	•	0	C	1.1	2	13	•	5.			14	::

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11/19/52	120.0	္ပိ	.160	131	*60*	.072	• 0 •	.019	-500-	-050.	.755-	-085-	-111-	-130-	.165-			
3740	-	` . 'S	.0125	.0117	- 0092	.0073	0000	.0933	SCC0.	-2100.	.0037-	-9500	2600.	.0202-	-6010-	** 19.4	12.	137
nn 343-1	10-0	ئ	-0180-	-1916.	-1010.	€900•	.0037-	-6000-	.0017	. See	₽700.	.0115	.0165	.0184	.020		•	~ •
2	•	*	12.02	10.00	8.00	6.02	4.03	20.2	.03-	2.02-	4-01-	-10-9	8.02-	15.01-	12.03-	• • •	. 4.	•
60	6	3	12.32	10.00	00.0	6.02	A.03	20.2	-05-	2.02-	4.01-	-10.6	-20.8	10.01	12.03-	•	•	
ARIS STAB	MOMENT STAB	ۍ	-011-	-110.	• 005	. 110.	. 025	.024	•05•	.021	*10*	•00•	-100	-021-	-030-	• • • • • • • • • • • • • • • • • • • •		
\$117 DOI		, ເ ດ <sub>ິ</sub> ງ	.0240	.0201	.0296	•0296	.0307	•0306	.0308	8CEO.	.0305	.0295	. 9750 .	.0270	.0236			
	DAIA	ٔ ت	.238	.244	.080	.068	.072	.070	•074	.078	-082	.095	\$00.	.104	. 111	-		
	LINAL			·c	-		_	_	~	_			<b>6</b> 1	N:	, ,			
		5	• 05	•00	.01	.01	.01	.01	.01	.01	.01	.01	930	-02	• 05			
	IOM SPEED WIND IUNNEL FINAL DAIA SHEE	<b>α</b>	-01-	.01-	-01-	-01-	-01-	-10.	-10.	-01-	-01-	-10.	-10.	-01-	.01-			•
	<b>X</b>	تە	'n	•	0	C		12	F	4	i.	16	71	1.3	0			. 1 .

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10W.	PEED WIN	IOW CPEED WIND TIINNEL FINAL DATA CHEF	NAI DATA S	, 	FURCE ALES STAB			343-1	4	11/19/62
			- WILL AUT		MONTHY ARES STAB			11-0	•	120.0
֟ <b>֞</b>	ď	ð	် ပ	CD	E	4.	*	ت.	. 3	, , , , , , , , , , , , , , , , , , ,
8	8.00-	0.01	-090	7570	100	8	co	-1500.	.0042	1-000
m	-E0 · 9	6.01-	.077	.0730	-000	00	60.	-8100.	.0034	-500-
'n	4.01-	3.94-	•22•	. 2770	.021-1	00.	00.	0000	• 2029	-600
¢	2.01-	1.00-	.333	.0860	. 534-	00.	00.	1000	.0027	-200-
•	-20-	.13	*6*	7560-	-04Q-	00.	00.	• 2016	• 0019	-003-
<b>co</b>	2.01	2.21	.644	.1116	-090-	. 1C•	.010	. 0921	1100.	.000
<b>.</b>	4.02	4.25	. 795	. 1318	-071-	• 01	. 10•	. 0200	.0018	-000
0	00.9	6.20	.924	+1555	-076-	• 01	•01	.0016	• 0003	-100-
15.	8.01	8.34	1.055	.1534	.0a!-	. 00°	60.	.0015	-0000	.001-
13	10.01	10.34	1.197	.2173	•084-	00•	8	.0018	-6000	-005-
14	12.01	12.42	1.339	. 2524	-080-	00.	60.	.0021	-6000	-6.00.
15	14.02	14.47	1.440	. 7106.	-976-	00.	60.	.0200	.0007	-500-
5	16.01	16.46	1.435	.3741	.074-	60.	-60	-9206-	.0213-	.010
1	18.02	18.44	1.351	.4418	.083-	60.	-00.	* 5506*	-0307-	-219
0	20.02	20.44	1.345	. 5000	-121-	60.	80.	.00100	-6010	.018-
				1 15 184		* 4.9	. <b>.</b>			t + 11.7

11/19/42	120.0	ပိ	-504-	• 168-	-122-	-080-	.761-	-031-	.995-	. 925	. 959	. 680·	. 120	.160	0
F 4	-	3	-9c10	0130-	-0130-	-6600	-9500	0018-	1100	9400	. 8900	. 0000	.0129	.0153	• • • • • • • • • • • • • • • • • • • •
343-1	1-21	j J	.0364	.0302	.0135	. 0104	. 0000	• 900 •	. 90100	-1860-	-7800.	-013%	-2020-	.0285-	-0333-
25 38	•	· ·	12.02-	10.02-	8.03-	6.03-	4.02-	2.02-	60.	20.2	10.4	20.9	8.01	10.00	€ C 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
<b>m</b>		4	12.02-	10.02-	8.03-	6.03-	4.02-	2.02	60.	20.2	10.4	6.02	8.01	10.00	200.21
ALES STAB	MONENT ARES STAB	ر ع	137	-113-	-960.	.035-	.062-	-090.	-940-	.051-	-750.	.053-	.083−	-164-	-123-
100(8 4415	=	Co	SPR0.	8060.	.0993	.0981	. 9460	.0965	-2000	.0964	. 0560	9460.	. 5660.	•0915	• • • • • • • • • • • • • • • • • • •
2 4740	DAIA	ر	177.	.541	. 535	. 526	.514	.502	. 404.	. 505	.512	.52n	.528	. 533	ig.
	INAL		le le		-41		,						•	•	
111111111	ONNEL	۲	.16	.16	.15	. 10	.15	•	.14	• 1 4	.15	.15	.15	.13	91.
THE STATE STATE STATE OF THE ST		å	- 55	-01-	-01-	-1G.	-01-	-01-	-10.	-01-	-10.	-01-	-01-	•01-	100
	IOM-SPE	<u>.</u>	•	'n	<b>S</b>	· •0	0	10:	1 1	12	13	1.4	13	1.5	<u>.</u>

11/10/62	120.0	ار د د	.205-	-195	•121-	-080	-740.	.030-	-600-	.020	. 549	.071	.105	. 154	* * * ·
F 1	•	75	.0113-	-1600	-008A-	-9000	-9100	• C003-	• 0026	. 5027	. 2751	. 0974	7600.	.0125	4410.
143-1		ٿ.	.0329	.0285	.0122	.0108	. 6900	.0200	-6100	2000	-6400.	-0284-	-210.	-1920 •	0300
=			12.00-	10.00-1	6.03-	6.03-	-00·+	2.03-	• 02	2.00	4.90	6.01	A.02	10.00	C
•	•	4.	12.00-	10.00-	6.03-	6.03-	-900-	2.03-	.02	P.00	. CO.	6.01	B. 0.2	10.00	12.01
THE ALIS STAB	MOMENT ALES STAB	ۍ		-180	• 06á-	-940.	-034-	.023-	-019-	-019-	-F50.	.030-	.054	-240.	- C600
•		ဝ	.0695	• 0675	. 1080	\$7770	.0765	*YTC*	1110.	.0763	. 1976.	.0780	.9762	.073	- 5432 
DATA S		ر د	.283	.271	.263	.243	. 232	664.	-217	.220	.220	.235	.244	.258	
LOW-SPEED WIND THINNEL FINAL DATA SHEET		, ס	3.94-	3.94-	3.94-	3.95-	3.95-	3.04	3.97-	3.96-	3.95-	3.95-	3.95	3.99-	3.94
EED WIND		αľ	4.02-	4.02-	4.0E-	-20°	4.02-	4.02	4.03-	4.02-	-Z0.+	4.02-	4.02-	4.03-	4.02.
LOW-SP	, ;	ā	N	n	•	'n	v	r	0	10	11	13	*	13	<u>o</u>

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Cm
57AB  W.  148- 12.02- 12.02- 13.02- 12.02- 10.02- 1
STAB  W
STAB 14-5

340	OFF WINE		STATE OF THE STATE	111 13001 ATT	ATTS STAB	_	F	1-100	1	11/10/52
		ו השעבד	FINAL DATA	_	MOMENT ARES STAB			C-C1	•	120.0
4	a D	8	ئ ن	Ç	ٿ گ	W.	*	ئ ئ		د» د د ا
د	8.01	8.35	1.094	1748	-172-	12.03-	12.03-	.0403	-2020-	.208-
'n	9.01	6.35	1.086	1757	-149-	10.03-	10.03-	. 0341	-0183-	.171-
•	8.01	8.27	. 995	.1791	.139-	0.02-	8.02-,	. 0223	-217-	-:30-
\$	8.02	8.35	1.065	.1787	-105-	6.02-	<b>6.32-</b>	.0192	-2810.	-006.
1	8.02	8.35	1.066	.1805	-160.	4.03-	4.03-	.0149	-7900	-040.
\ <b>(</b>	3.01	8.34	1.963	.1822	-580.	2.03-	2.03-	. 5081	-7500.	.933-
0.	9.00	9.33	1.063	.1515	-080	-26.	-20-	.0005	-1106.	-000
1 1	9.01	9.34	1.058	.1821	.094-	2.01	2.01	-1500	.0040	550.
4	8.02	9.35	1.069	.1772	-08G.	*.0e	4.02	-31.16.	. 2041	. 200.
1,	9.02	3.35	0.001	.1762	-100	. 20.9	6.02	-6020.	. 0129	.100
1.5	3.01	9.35	1.032	. 1768	-116-	6.01	8.01	-0276-	.0158	.127
60	9.01	8.35	1.689	.1772	-140-	10.03	10.03	.0333-	1010.	. 197
19	3.01	8,35	1.110	.1760	.155-	12.01	12,61	.0406-	.0219	: 36:
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				<b>(</b> )*	• • •	•			. •	٠١١
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				HACE ALLS STAB	, •		ns 343-1	7	11/19/62
_	IONNEL	LOW-SPIED WIND JUNNEL FINAL DATA SHEET		NOMENT ARE STAD			16-5	•	120.0
	3	์ เ	້າ	ۍ	<b>4</b>	,     <b>&gt;</b>	ئ		33
	16.49	1.497	.3753	-160-	12.02-	12.02-	.0370	-0439-	-1861
	16.49	1.499	. 371.	-120	10.03-	10.03-	.0316	-5660.	. 161-
	16.48	1.464	.3663	-1113	8.02-	8.02-	.0269	-1860.	-120-
	16.48	1.464	.3727	6	6.03-		.0176	.0380-	-335-
	16.47	1.450	.3683	-260	4.09-	-00-	.0132	.0269-	-070-
	16.48	1.470	.3642	-080	2.03-	2.03-	. 2354	-8710.	-023-
	16.48	1.454	.3657	-6200	-06•	-00.	-7900.		. 410.
,	16.46	1.413	.3562	.082-	2.03	2.33	1.11c.		.030
	16.49	1.407	.3520	-070-	4.01	4.01	-01.97-		.373
	16.45	1.413	.3549	: T	6.02	. 20-9	.0265-		.127
	15.47	1.440	•3564	•123	5.01	9.01	-5334-	-0360-	.152
	15.50	1.527	. 3341	1	10.33	10.01	-1880-	colc.	.155
	16.50	1.539	0454.	.107-	12.02	12.02	-2140.	.0220	. 101.
	16.45	1.332	.3584	.1001.	4.02	\$0°	*5153*	-0420.	Ecc.
	15.47	1.411	. 3583	-2112-	00.9	00.0	-52-20-	-6000	. 1117
	15.47	1.442	.3538.	.127~	6.01	8.01	-0319	.0073	
i	16.45	1.514	.3651	.124	10.02.7	10.01	-1560-	•0220	157
	16.51	1.:55	60 <b>96</b>	.151-	12-01	12.51	•0383•	.0313	181.
	•	• •		فاحتبو الت	P. Pharma	1.3 <b>-</b> 4			<b>a</b> w:
			Paul (°)		Le 49-34	. #4	, e		
1				***************************************	1		E		

MR 11/10/82	120.0	ر ن س	-1110.	-516-	-410.	-000•	600		-600		• •	•			•	. ecc. :-	. [3
2		3	1000	• 0003	\$100.	.0016	.0015	.0012	£000°	-2000-	-,000.	.0011-	-6000·	-60000	-50032-	-1500-	-2200-
118 343ml	17-0	ئ	0026	-0035	-0032	.0033	.0030	.2023	.0013	1000	1100	#000·	. 3338	.0010	-61CC·	. 3n24	÷100°
		3	00.	00.	00.	00.	• 00	•05	• 02	20.	.02	• 05	20.	20.	.32	. 32	.02
	•	6	90	00.	8	.00	00.	-02	.02	.02	30.	-05	- 32	20.	• 52	-02	.02
POCT ATTS STAB	MONTET AMS STAB	5	-550-	-990	. 265-	-105-	. TIT.	.125-	-25.1.	-140-	.143-	.145-	-144-	130-	133-1	-140-	-165-
•	_	ဌ	1090	.0690	-0762	.0849	9966.	.1127	.1324	•1539	•1866	.2200	.2541	.3057	.3635	.4533	.5097
IOW COFFE WIND TIMME FINAL DATA CUES	MAL DAIR	3	-035-	.104	.251	.393	. 528	.673	.809	.953	1-104	1.229	1.348	1.454	1.52.1	1.4:3	1.367
TIMBE C	וסששנו	່ອຸ	8.02-	<b>9.</b> 30-	3.04-	1.91-	• 16	2-22	4.25	6.31	8.35	10.40	12.42	14.40	15.43	18.45	20.44
DEED WANT	אננה מוצר	8	8.01-	6.03-	.01-	Z.03-	-00	Z.01	00.4	6.01	8,01	10.02	12,00	14.03	15.02	18.01	20.03
		Σ.	~	'n	•	r	9	^	<b>c</b>	c.	0	11	12	13.	14	17.	13

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4	)

				:	FORCE ATTS STAB		•	1121 343m]	2.4	11/19/62
10M	SPEED WIND	1 DANET	LOW-SPEED WIND FUNNEL FINAL DATA SHE	<b>.</b>	Mineral cars STAB		_		•	127.0
<b>a</b>	ď	٦	ئ	g G	E J	.i. <b>E</b> -	*	5	3	, 3
	8.02-	-20°B	-600.	9690	-112-	.01	.010	. 2007	9000	-50.0
m	6.03-	5.99-	.125	.0633	-123-	90.	60.	.0332	0100	-120.
•	4.02-	3.94-	. 282	00756	-141-	00.	00.	.0027	• 0016	-010-
n	E.00-	1.97-	924.	, 7859	+41.	• 05	20.	. 9206	.0016	-100.
•	-(3.	•17	.364	6.0078	.173-	± 20•	.02	. E100.	. 0013	-900
7	2.04	2.25	. 498	.1151	-182-	• 02	. 20.	.0015	. 9000	-6003-
<b>c</b> n	4.00	4.26	.840	.1351	-661.	60.	0	•000	1000	-166.
C	6.03	6.32	.975	•1605	.193-	#J C	• 02	.0003	•0000•	. 100.
10	8.01	8.35	1.115	.1908	-191-	. 36	50.	. 2006	.3308-	.000
1.	19.00	10.33	1.247	.2239	-001.	20.	0	. 9000	-6100.	• 212
2	12,00	12.43	1.374	•2654	-1861.	•05	.02	9000	-7000.	000.
13	14.01	14.48	1.438	.3141	. 106	- 52	-02C	9000	.0011-:	-500.
14	15.02	16.51	1,560	.3745	-101-	, 5 c	.02	.6553-	. 038;	. 900.
13	18.01	18.49	1.470	. 4627	;-561.	• 05	• 02	• 2042	-1020-	: 116.
16	20.01	20.45	1.425	.5155	-522.	•05	• 05	. 000B	.0000	.34th
1	- •				• **		E T			•

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CNIW CI	OW COSTO WIND THINNEL FINAL DATA SHEET	DATA SH				•	C102	•	0.021
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3.02-	9.12-	.329-	.2472	151-	000	000	-02060-	. 2016	, 20°
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	-10-6	.759	.0314	-195-	.0.	. 10.	C066.	•000	7,000
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10.4	4017	R. 0.5.	.0539	- 24:-	00.	. 60.	.00:1	00000	.004
20.0	6.20	.597	.0075	-645.	00.	60.	. n.15	. 5011	-300.
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	10.26	.815	.1121	-2115-	-60.	00.	.0017	-6000	-600.
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16.00	15.39	1.069		1000	, CO.	60.	. 5177.	. 2222	F (0.0.
	18.35	1.043	54:30	16:31	60.	. 00.	-Lacu.	£660.	-inc.
10.05	\$0.08	1.043	.3421	-214-	00.	. 30	LIGG.	-0100-	-121.

3	THE PERSON WITH THE PERSON WOLLD	TIMMET CIN	S STAG 14	t	MACCO STAB			NA 343-1	1	30/61/11
	STEED WIND	LONNEL TIN	AL DAIA S	- -	BATS STAB			21-0	•	123.0
٤	. J <sub>D</sub>	σ	ر ن	ິດ		, , , , , , , , , , , , , , , , , , ,	*			20
'n	4.03-	a. 13-	399-	.0527	.039-	-00	CO.	-0100.	-8000	-+00.
4	0.03	6-11-	-251-	.0373	-550.	-C.C.		. 6503.	-2000-	- f.00.
ហ	4.03	4.37-	-134-	. 5312	-530.	-36.	, cc.	. 0800.	-0002	. 1003-
Ø	2.03-	2.03-	cce.	, 9526	.081-;	-60.	. 00.	•305e	. 200C.	-700.
•	-1C.	• 25•	.123	.0314	.080-	-00.	26.	. 50054	60CC*	-300-
•	2.01	2.09	.234	.0366	-102-	-66.	00.	.5521	1100.	-500-
0.	4.01	4.13	ser.	. CARO.	:	-00.	: cc.	9100.	. 2312	.303-
7	6.00	6.15	.529	.0573	.125-	-66.	00.	.0014	. 6000	400.
~7	9.00	<b>a.</b> 20	. 651	.0733	.133-	-00.	. 22	. 5325.	.00.	.003-
13	10.02	10.25	750	. 2322	.144-	-66.	.00	. 2213	. 7000.	-206.
4	12.32	12.30	.901	.1150	.151-	-000	. 00	0:00.	-0100-	-000-
15	10.41	14.32	1.009	.1413	-155-	-60.	.00	. 0250	-7000.	100.
16	16.91	16.34	1.371	. 1904	•152-	-60	00.	. 2013	. 202:	325-
17	19,02	18.35	1.398	.2453	.169-	£8.	-00	-26.00	1 7000	. 000.
13	20.01	20.33		, 3217		-60.	Ė	-001.V	· 92126•	-110.
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10W SPEED WIND 1UNNEL FINAL DATA SHEET  Pr α <sub>t</sub> α  2 8.31- 8.13- 8.435235	3									
· ·		IONNEL TH	TAL DATA SH		BAT'S SITTE			C-22 ***	-	123.0
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3 6.	6.01-	2.13-	.403-	. 9539	.010	.55-	.00	5100	-9505	*0C*
	€0.9	6.12-	-233-	.0413	-ccc•	-cc.	cc.	.0322	-ecac•	-800.
4	4.01-	4.73	-153-	.0321	F10.	-00.	. 22	. 5400.	-0000	-626.
S	2.01-	2.01-	¥10.	.0297	1 20.	-00-	\$	.003	. rcco.	-4.CC.
· •	-01-	.01	.093	.0333	-93%-	-60.	.00	•200•	7000	. Trc.
7 2.	2.00	2.36	.220	.0353	-540-	-00-	00.	• 200 •	. 8ccu.	-700.
10.4 8	10	4.12	•354	. 2434	920-	100	60.	• 0522	1100.	
9 5.33	20	0.13	. B.	.2546	.4560	100.	55.	C100.	. 503:3	-100.
10 3.21	<u></u>	8.20	.626	.3592	-c.7C.	-0.0.	. 55	: 2100.	2100.	- 10CC
11 10.01	10	10.24	.743	. 2879	-25c	-9C.	.30	. 2302	. 1100.	-200.
13 12.03	53	12.35	c78.	.1020	.092-	-00-	.33	. 6000.	-2006-	.031-
14 14.01		14.31	106.	1221.	:-cac*.	1.0.	.7.	• 0008	-6000-	-100.
15 16,32	32	15.33	1.083	1735	-136-	, 20°	. 60.	. 2225	. 2225	.003-
15 19.51	5	13,35	1.00.1	.2361	.12.0€	-66.	.23	-5260.	-8000	1-40C.
17 20.03		PD-34	1.013	.3124	. 1 4 4 -	00.	00.	-5166.	-8000	-131-

Ph   Oliver   Mark		3 4 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		PORCE AND STAB	-	•	1-11-1	1	35/61/11
61	<b>1</b>	FINAL DATA S			_	•	23~0	•	122.0
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. 345 . 7326 . 691 . 605 . 603 . 6713 . 5923 . 545 . 7326 . 691 . 605 . 607 .	. 3 <del>8</del> -		.0378	\$60.	-66	ક	+100.	.0016	-010-
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.331 .0416 .067 .0303 .07177328 .438 .0579 .031 .0309 .00017228 .438 .0579 .031 .0309 .00017222 .552 .0546 .034 .0309 .077 .0915 .595 .0546 .034 .0909 .0717 .0937 .817 .0998 .027 .0909 .0718 .0909 .024 .1233 .020 .0009 .0712 .0908 1.001 .1640 .013 .020 .0909 .0340 .0928 1.025 .2279 .013 .090909 .03400916	0.3	.346	, 93EG.	.031	-C0.	. 00	•3113•	. 5566.	
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.552 .0546 .043 .0909 .053; .0915 .595 .0546 .034 .0909 .0317 .027 .924 .1233 .027 .0009 .0312 .0076- 1.021 .1640 .013 .0009 .0319 .0325 1.025 .2279 .0150909 .03220915	.14	• 438	£050.	• 351	-CO.	00.	-1cao-	. 2200.	-956-
.817 .3998 .027 .0903 .0314 .0337 .9337 .9337 .9337 .0334 .033034 .0357 .0359 .0357 .0359 .0359 .0359 .0359 .0359 .0359 .0359 .0359 .0359 .0359 .0359 .0359 .0359 .0359 .0359 .0359 .0359 .0358 .0398	.23	.952	•0546	•043	-00.	. 00.	. 500c	<b>.</b> 2015	-7:C.
-927 -0598 -027 -059 -0514 -0505 -924 -1233 -027 -059 -0512 -0507 1.001 -1645 -013 -059 -0515 1.025 -2279 -015 -059 -059 -05915 -032 -0512 -05915	.23	.595°	•585¢	• 934	00-	. 00.	- 11CC.	. 7562°	-300.
1.001 .1600 .013 .0000 .0012 .0075 .0075 .0025 .0025 .0025 .0025 .0025 .0025 .0025 .0025 .00015 .000000000000 .001200015	2.25	F::0	9660.	-024	-60.	.00	. 6160.	. 0000	-000
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		••	l ar	ion i	- 7 44	• ^			* ***
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0M-3FE	ED WIND	LOW-SPEED WIND LUNNEL FINAL DATA SHEE	DAIA SH	_	MOMENT ARES STAB		-	0-77	•	123.0
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~	5.01-	6.12-	3335	8640.	191	-60	60.	£560.	-5000	570
'n	4.02-	4.39	-755.	.0407	.154	-60.	60.	.0053	.0003	-560.
4	2.01-	2.04-	.129	.0357	. 143 3	.00		. csin•	.0002-	-215-
່ເກ	- 01-	-10.	.214	.9343	.133	.33±	• 33	. 9366	-1000	-515-
٠ <u>٠</u>	2.01	2.05	.143	.0352	• 130	-000	66.	. 0250	. 5551	-610-
1	60.5	4.11	.279	•0418	. 117	-00.	. Co.	. 9549	. Ecce	1. 13
Ġ	6.03	61.5	.437	6050	.103	-000	. 00.	. 9336	. 2005	-800.
S.	9.91	B.:7	. 332	.5230	.132	-26.	.92-	. 52.32	C169.	-400.
10.1	10.00	10.25	.665	0794	76:	.220	.92-	.0.72:	. 506.7	4
111	12.00	12.24	611.	.3973	• 080	-20.	-36-	•1600	• 6000	-000
17 1	14.01	14.29	.961	.1209	.077	-CC.	CC	\$ 01000	•5005•	fcc.
	16.01	16.31	. 970	1362	.070	-22-	.52-	\$10C.	, 2260.	-900-
14.1	13.01	13.32	96.6	\$222	.543	.52-	.52-	-7556-	-5323-	-C.C.
13 2	20°C2	20.30	196.	1562	-252-			-0250	-02000	-756.
10 1	12.01	12.29	.786	. 5840.	•384	100	. 00.	. 5313	-2000-	•516•
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15.	3,53	13.74	T. T. Co.	. 22.33	100.	0	.62-	-51.50	-5253	-000
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The first transform that the content of the conten	3 30	DEED WIND	THEFT	SIMAL DATA	_	FORCE ARES STAB	•	•	1-03-1	1	11/13/52
a <sub>1</sub> a <sub>2</sub> b <sub>1</sub> b <sub>2</sub> <th< th=""><th></th><th>STEED WIND</th><th></th><th>TIME DAIR</th><th></th><th></th><th>•</th><th></th><th>6-58</th><th>•</th><th>123.0</th></th<>		STEED WIND		TIME DAIR			•		6-58	•	123.0
4.92-       4.07-       -2456       -035       -02-       -02-       -02-       -09-       -00-       -09-       -00-	Z	מ	8	ت.	S		4.	÷	° 3	3	ن
4.92-       4.97-       .179-       .0332       .035-       .02-       .02-       .0950       .9950         2.03-       2.04-       .049-       .0344       .023       .02-       .02-       .0051       .0001         .01-       .01-       .073       .0304       .017       .02-       .02-       .00-       .0001         2.03-       2.03-       .0304       .031       .02-       .02-       .00-       .0007       .02-       .0007       .0007       .02-       .02-       .0007       .00	α"	-6.0.9	6.5%	202	9870	.035	-20-	26	- 100	-2100-	1500
2.03- 2.040450304 .023 .02020051 .00070101 .073 .0304 .017 .02020020045 2.03 2.09 .139 .0347 .011 .0202020045 4.01 4.11 .321 .0422 .097 .0202020945 .0997 5.02 5.14 .459 .0515 .092 .02020926 .0999 0.03 1.021 .351 .0648 .00202020913 .0513 19.01 10.23 .717 .0620 .07702020913 .0513 14.01 14.30 .051 .1275 .01502020907 .0924 15.02 15.33 1.011 .1642 .0202020907 .0924 18.00 13.32 1.029 .2291 .0390202020915 20.02 20.32 .973 .3015 .0810202020915	m	4.92-	4.07	-	.0332	360.	-20-	.52-1	. 0600.	-2000	-7.10.
2.63 2.09 . 139 .0306 . 017 . 02 02 0043 . 0001 2.63 2.09 . 139 .0347 . 011 . 02 62 0043 . 0007 4.01 4.11 .321 .0422 . 0007 . 02 02 053.6 . 0009 6.03 5.14 . 459 . 0515 . 002 . 02 02 052.6 . 0009 10.01 10.23 .717 . 0648 . 002 02 02 0213 . 0013 12.01 12.27 . 033 . 1032 . 013 02 02 0013 . 0013 14.01 14.30 . 051 . 1275 . 015 02 02 0007 . 002- 15.02 15.33 1.011 . 1642 . 029 02 02 0007 . 002- 18.00 13.32 1.011 . 1642 . 039 02 02 0013 0013- 20.02 20.32 . 973 . 3015 . 081 02 02 0013 0018-	4	2.03-	2.04-	·	•03:14	• 023	.02-	-20-	1500.	1000.	1200
2.63 2.09 199 0.3347 011 0.92- 6.62- 0.9543 0997 0.92- 6.62- 0.9543 0.9997 0.92- 6.62- 0.9543 0.9998 0.9543 0.997 0.92- 0.92- 0.92- 0.9245 0.9999 0.933 0.925 0.92- 0.92- 0.92- 0.925 0.9299 0.933 0.929 0.92- 0.92- 0.92- 0.92- 0.9213 0.9913 0.9913 0.9201 0.92- 0.92- 0.92- 0.9313 0.932 0.932- 0.92- 0.92- 0.937 0.9972- 0.92- 0.92- 0.92- 0.937 0.9972- 0.92- 0.92- 0.92- 0.92- 0.92- 0.92- 0.92- 0.92- 0.92- 0.92- 0.92- 0.92- 0.92- 0.92- 0.92- 0.92- 0.93- 0.92- 0.92- 0.92- 0.92- 0.93- 0.92- 0.92- 0.92- 0.92- 0.93- 0.93- 0.92- 0.92- 0.92- 0.92- 0.93- 0.92- 0.92- 0.92- 0.92- 0.92- 0.93- 0.92- 0.92- 0.92- 0.92- 0.93- 0.92- 0.92- 0.92- 0.93- 0.92-	in	.01-	.00	.073	9050	-017	-56-	-60-	. 9040	1000	010.
4.01       4.11       .321       .0422       .0907       .02-       .03-	9	2,53	2.09	661.	. 2347	.911	-56-	-52-	. 6560	. 5003	-4.000
6.00       55.4       •459       •0515       •02-       •32-       •302       •92-       •302-       •302-       •302-       •302-       •302-       •302-       •3013<	~	10.4	4.11	.321	. 6422	1000	.55-	. 625-	. 00.50	B000.	•333-
0.03       0.21       .3548       .052-       .02-       .0213       .9513         10.01       12.23       .717       .0620       .977-       .02-       .02-       .0713       .0713         12.01       12.27       .032       .013-       .02-       .02-       .0207       .0707       .0702-         14.01       14.30       .051       .1642       .025-       .02-       .02-       .0207       .0307       .0303         18.70       13.32       1.011       .1642       .025-       .02-	m	6.00	5.:4	654	•0515	. 566.	-50-	.53-	. 9266.	. 6000	-700.
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.7	10.02	10.32		. 363	1547	€60•	10.02-	10.52-	-9221-	-7020.	-6:00·
4	16.02	16.32		.361	.1344	e119	8.99-	B.03-	-0175F	-0172-	1.1470
'n	15.02	16,32		\$56°	.1312	•125	60.9	6.00 <del>-</del>	.9131-	.0143	+E. C.•
S	15.52	15.31		.949	61519	2510	4.03-	4.03-	.0072-	-6800	.321-
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6	16.52	15,32	• •	958	5051.	.123	6.00	6.00	.0132	. 51 72	() () () •
4	16.02	15,32	- ,	156.	.1531	.122	8.01	8.01	ELIL.	6610.	. 200
10	16.02	16.32		.960	•1559		10.03	10.03	.0222	.5237	# CO •
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3 73 6	Office and	ia. Identita		•	PONCE ALES STAB	•		NET 343-1	1	11/19/02
C-401	LOW-SPEED WIND	I CHAREL P	WIND TURNEL FINAL DATA SHEET		MOUNT ARE STAB	•	-	32-0	•	1.23.0
٤	B	8	3	ဝိ	ځ.	4	*		3	· · ·
7	4.02	3,35	1.063	. 733	101	12.02-	12-02-	-0237-	-7.410	-7EC.
ຕ	9.03	8.35	1.671	1784	.135-	10.52-	10.02-	.0229e.	.9124-	-1000
• <b>•</b>	30.00	9,33	1.072	*178+	-0000	8.03~	8.03-	- 181C.	-5010-	-C30.
ទ	8.92	3,33	1.074	.1757	.co.	6.02~	5.02-	-0510	-1956-	.2 37-E
S	8.02	8.34	1.077	. 62710	.783-	4.03-	4.03-	£5500	5960	-222.0
<b>*</b>	8.72	8.25	1.070	.1761	•080•	2.03-	2.03÷	.22584°	1400.	-0000
10	8.02	8.53	1.075	77773	•003-	30.	8.	-0012-	-6000	€00•
	8.02	8.36	1.000	.1730	-000-	2.0:	<b>Z</b> •0:	. 0690	• 0024	7:00
12	8.32	8.33	1.076	. 2773.	00-	4.0:	4.01	. 9500.	•0045	•023
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a <sub>1</sub> a <sub>2</sub> b <sub>1</sub> b <sub>2</sub> <th< th=""><th>6.01- 6.02- 6.046</th><th></th><th></th><th></th><th>Land Dail</th><th></th><th></th><th>2</th><th></th><th>23-0</th><th>•</th><th>123.</th></th<>	6.01- 6.02- 6.046				Land Dail			2		23-0	•	123.
6.01-         6.02-         6.01- <th< th=""><th>8.03-         8.02-         036         057         057-         00-         0016-           8.01-         3.22-         314         0644         275-         00-         00-         0016-           8.02-         314         0644         172-         06-         00-         0016-           8.02-         137-         070-         070-         070-         0016-           8.02-         136         170-         06-         000-         0016-           8.02-         136         170-         06-         000-         0016-           8.02-         107         110-         06-         000-         0016-           8.02-         107         110-         06-         000-         0016-           8.02-         107         110-         06-         06-         06-           8.01-         10-         110-         06-         06-         06-         06-           8.02-         10-         110-         110-         06-         06-         06-         06-           10-         10-         10-         06-         06-         06-         06-         06-           10-         10-</th><th>z,</th><th>å</th><th>8</th><th>ٽ</th><th>S</th><th><b>.</b></th><th>3</th><th>•</th><th><b>C</b></th><th>3</th><th></th></th<>	8.03-         8.02-         036         057         057-         00-         0016-           8.01-         3.22-         314         0644         275-         00-         00-         0016-           8.02-         314         0644         172-         06-         00-         0016-           8.02-         137-         070-         070-         070-         0016-           8.02-         136         170-         06-         000-         0016-           8.02-         136         170-         06-         000-         0016-           8.02-         107         110-         06-         000-         0016-           8.02-         107         110-         06-         000-         0016-           8.02-         107         110-         06-         06-         06-           8.01-         10-         110-         06-         06-         06-         06-           8.02-         10-         110-         110-         06-         06-         06-         06-           10-         10-         10-         06-         06-         06-         06-         06-           10-         10-	z,	å	8	ٽ	S	<b>.</b>	3	•	<b>C</b>	3	
6.01-         3.04-         17±         0624         235-         0015-         0015-         0015-         0015-         0024           2.02-         1.37-         0634         175-         06-         00-         0015-         0025-           2.02-         1.37-         0774         175-         06-         00-         0015-         0015-           2.02-         1.37-         0774         175-         06-         00-         0015-         0017-           2.02-         2.02-         070-         070-         070-         070-         070-           2.02-         4.26         803-         1274         110-         00-         00-         0012-         0012-           6.01         6.02         070-         070-         070-         070-         070-         070-           8.01         10.14         1.274         110-         070-         070-         070-         070-           8.01         10.05         1.130         2.250         0.05-         0.00-         0.00-         0.00-           16.01         10.05         1.05         0.05-         0.00-         0.00-         0.00-           16.02 <th< td=""><td>6.01-1 5.06- 172 00624 102- 000- 000- 000- 00014- 2.02- 1.50- 040 007/4 1130- 000- 000- 00015- 2.02- 2.20 0564 007/4 1130- 000- 000- 00015- 2.02- 2.20 0564 107/4 1130- 000- 000- 00015- 2.02- 2.20 0564 107/4 1130- 000- 000- 00015- 2.02- 2.20 0564 107/4 1130- 000- 000- 00015- 2.02- 2.20 0564 107/4 1130- 000- 000- 000- 00015- 2.02- 2.20 0564 1007/4 1130- 000- 000- 000- 00015- 2.02- 2.20 0564 1007/4 1130- 000- 000- 000- 00015- 2.02- 2.03- 000- 000- 000- 000- 00015- 2.02- 2.03- 000- 000- 000- 000- 00015- 2.02- 2.03- 000- 000- 000- 000- 00015- 2.02- 2.03- 000- 000- 000- 00015- 2.02- 2.03- 000- 000- 000- 000- 000- 2.02- 2.03- 000- 000- 000- 000- 000- 2.02- 2.03- 000- 000- 000- 000- 000- 2.02- 2.03- 000- 000- 000- 000- 000- 2.02- 2.03- 000- 000- 000- 000- 000- 2.03- 000- 000- 000- 000- 000- 000- 2.02- 000- 000- 000- 000- 000- 000- 000-</td><td>N</td><td>6.03</td><td></td><td></td><td>2/500</td><td>-2:7-</td><td>-00.</td><td>30.</td><td>-0116-</td><td>•0353</td><td>-000</td></th<>	6.01-1 5.06- 172 00624 102- 000- 000- 000- 00014- 2.02- 1.50- 040 007/4 1130- 000- 000- 00015- 2.02- 2.20 0564 007/4 1130- 000- 000- 00015- 2.02- 2.20 0564 107/4 1130- 000- 000- 00015- 2.02- 2.20 0564 107/4 1130- 000- 000- 00015- 2.02- 2.20 0564 107/4 1130- 000- 000- 00015- 2.02- 2.20 0564 107/4 1130- 000- 000- 000- 00015- 2.02- 2.20 0564 1007/4 1130- 000- 000- 000- 00015- 2.02- 2.20 0564 1007/4 1130- 000- 000- 000- 00015- 2.02- 2.03- 000- 000- 000- 000- 00015- 2.02- 2.03- 000- 000- 000- 000- 00015- 2.02- 2.03- 000- 000- 000- 000- 00015- 2.02- 2.03- 000- 000- 000- 00015- 2.02- 2.03- 000- 000- 000- 000- 000- 2.02- 2.03- 000- 000- 000- 000- 000- 2.02- 2.03- 000- 000- 000- 000- 000- 2.02- 2.03- 000- 000- 000- 000- 000- 2.02- 2.03- 000- 000- 000- 000- 000- 2.03- 000- 000- 000- 000- 000- 000- 2.02- 000- 000- 000- 000- 000- 000- 000-	N	6.03			2/500	-2:7-	-00.	30.	-0116-	•0353	-000
4.01-         35.22-         31.4         00074         175-         000-         0014-         0026           2.02-         1.59-         0.440         0.0774         1175-         0.00-         0.0015-         0.0026           2.02-         1.16         0.535         0.0739         1134-         0.06-         0.00-         0.0015-         0.017-           4.02         2.23         0.054         0.1075         0.110-         0.00-         0.00-         0.0012-         0.0012-           6.01         4.26         0.803         0.1274         0.110-         0.00-         0.00-         0.0012-         0.0012-           6.01         6.02         0.904         0.00-         0.00-         0.0012-         0.0012-         0.0012-           6.01         6.03         0.1274         0.110-         0.00-         0.00-         0.0012-         0.0012-           8.01         1.003         0.110-         0.010-         0.00-         0.0012-         0.0012-         0.0012-         0.0012-           10.01         1.003         1.110-         0.110-         0.00-         0.00-         0.0012-         0.00-         0.0012-           10.02         1.003	#.012- 3.02- 33.4 .06544 .175- 0.00- 0.00- 0.014-  Z.02- 1.37440 .0774 .17500000015-  Z.02- Z.23 .654 .1075 .1360606000015-  #.01	•	<b>9.</b> 03.			>7000	.275:-	-00-	-00-	-6100.	-5CO.	1000
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2.12         116         3555         00709         0136         000- <th< td=""><td>2.32       2.65       0.000       0</td><td>່ທ</td><td>2.03</td><td></td><td></td><td>****</td><td></td><td>-00.</td><td>-00•</td><td>• <b>• • • • • • • • • • • • • • • • • • </b></td><td>.0322</td><td>-00°</td></th<>	2.32       2.65       0.000       0	່ທ	2.03			****		-00.	-00•	• <b>• • • • • • • • • • • • • • • • • • </b>	.0322	-00°
2.02         2.23         .056         .1075         .137-         .00-         .00-         .0012-         .00012-	2.02       2.23       .0924       .1075       .110-       .00-       .00-       .0012-         4.01       4.26       .803       .1274       .110-       .00-       .00-       .0012-         6.01       6.30       .934       .1313       .103-       .003-       .00-       .00-       .00-       .000-         10.01       10.35       1.194       .203       .003-       .00-       .00-       .00-       .0007-         12.00       12.41       1.310       .2045       .026-       .00-       .00-       .00-       .00-       .0007-         14.02       14.02       1.425       .2945       .026-       .00-	•	• • • • • • • • • • • • • • • • • • • •	•	1		-130-	-000	-000		-03:7	•03
4.0:       4.26       .803       .1274       .110-       .00-       .0012-       .0002         6.0:       6.0:       .90       .13:4       .110-       .00-       .00-       .00:1-       .0003-         8.0:       8.34       1.07:       .17:5       .033-       .05-       .00-       .00:1-       .00:10-         10.5:       10.32       1.194       .203       .003-       .00-       .00-       .00:1-       .00:10-         12.0:       12.4       .203       .004-       .00-       .00-       .00:1-       .00:14-         12.0:       12.4       .203       .004-       .00-       .00-       .00:14-       .00:14-         14.0:       12.4       .204       .002-       .00-       .00-       .00:14-       .00:14-         14.0:       14.0:       .204       .00-       .00-       .00-       .00:14-       .00:14-         16.0:       16.4       .000-       .000-       .000-       .000-       .00:14-       .00:22-         16.0:       16.4       .000-       .000-       .000-       .000-       .00:22-       .00:22-         16.0:       16.4       .000-       .000-       .0	4.0: 4.26 .803 .1274 .11000000012- 6.0: 6.30 .934 .1313 .155 .03500000011- 10.0: 10.30 1.194 .2035 .00500000007- 12.00 12.4: 1.313 .2045 .00700000013- 14.02 14.46 1.422 .2945 .00200000011- 16.0: 16.45 1.423 .3331 .00500000072- 16.0: 18.45 1.423 .4942 .004000000- 20.03 20.44 1.302 .4942 .004000000-	•	2.02		г.	-1075	-121-	-00.	-00.	-001:00	-5750.	.000
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8.34       1.073       .033-       .032-	8.34       1.073       1733       0033-       005-	•	.0.9	6.30		.13:6	-101-		-00•	.00:1-		
10.5:       10.3C       1.194       -2090       .002-       .00-       .00-       .000-       .	10.5: 10.3C	10	40.0	8.34	1	.1.55	.033-	1	1	-6000°	•	
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6.01- 6.01-		20			3	<b>r</b> -	Co	5	*	*	C. C.	75	3
6.02- 3.92		8.03		177		777	2400	-523-	30.	000	0000	.0321	-6.00
2.02-         3.92-         .337         .0771         .201-         .00         .00-         .002-         .001-         .00	•	6.3:		5.33		, 5C1	•0683 ;	-9:20	00.	000	-8000	.0331	-66-0-
2.02-       1.650-       •459       •0066       •134-       •00       •00-       •005-       •0	m	4.02	٠, -	3.42-	"	337	. 1770.	-503-	-00	9	• • • • • • • • • • • • • • • • • • • •	• 0025	9000
2.22 •700 •1:55 •143- •30 •00- •0354- •0016 4-27 •835 •137- •134- •32 •03- •0359- •0353 6-30 •973 •1624 •112- •02 •02- •03- •0359- •0353 10.33 1.22 •255 •059- •059- •05- •05- •051- •0314- 12.43 1.346 •2559 •059- •05- •05- •05- •051- •0314- 14.46 1.462 •3691 •061- •36- •06- •06- •0012- 18.41 1.332 •4518 •032- •30 •06- •0025 •0035- 18.41 1.332 •4518 •032- •30 •06- •30 •0025 20.41 •06- •30 •06- •30 •06- •30 •06- •30 •30 •30 •30 •30 •30 •30 •30 •30 •30		<b>8.</b> 00		1.60	<b>.</b>	. 651	•0006	-124-	00.	-000	-60000	27000	100.
2.00       2.02       .000	1		1	•17		134	•00339	-1231	3.	-00•	-0354-	•0016	100.
4.61       4.27       .835       .1373       .136-4       .030-1       .030-1       .030-1       .030-2       .031-3 <t< td=""><td>•</td><td>2.00</td><td>ar con</td><td>20.22</td><td> ·</td><td>001</td><td>. 60:10</td><td>-146-</td><td>000</td><td>-20-</td><td>-+000</td><td>.0310</td><td>-00°</td></t<>	•	2.00	ar con	20.22	·	001	. 60:10	-146-	000	-20-	-+000	.0310	-00°
6-03 6-30 -973 -1624 -11200 -00000770005- 10-03 10-03 1-220 -2200 -007600 -0000010014- 12-0: 12-43 1-346 -2509 -05900000000050013- 14-0: 14-46 1-442 -3094 -041060000760005- 14-0: 14-46 1-332 -4518 -03200 -00007600055- 18-03 18-4: 1-332 -4518 -059000000730059-	Φ.	4.01		6.27		135	.1373	•136-	000	-96-	-6000•	.0000	300°
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12.0;   12.43   1.346   .2559   .059-  .06-  .05-  .062-  .0613-    14.5;   14.46   1.442   .3694   .041-  .06-	M	10,00	er	0.33	7-1	22	•2200 F	-070-		-00-	-1000	-91000	÷00•
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4.cz         4.cz         .00 </td <td>4.02-         6.09-         .00-         &lt;</td> <td>0</td> <td>6.56-</td> <td>7.0</td> <td>,</td> <td></td> <td>5,70</td> <td>-102-</td> <td>30.</td> <td>00.</td> <td>.C.14-</td> <td>.000</td> <td>-000</td>	4.02-         6.09-         .00-         <	0	6.56-	7.0	,		5,70	-102-	30.	00.	.C.14-	.000	-000
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6.00-         6.01-         .0340         .164-         .00         .0014-         .0034           6.00-         6.00-         .021-         .024-         .090-         .00         .00         .0017-         .0034           4.02-         4.02-         .00         .00         .00         .00         .0017-         .0034           2.01-         2.01-         .024-         .070-         .00         .00-         .0017-         .0017-           2.01-         2.01-         .024-         .034-         .034-         .0011-         .000-         .0011-         .0007-         .0011-         .0001-         .0011-         .000-         .0011-         .0007-         .0011-         .0001-         .0001-         .0001-         .0001-         .0007-         .0001-         .0007-         .0001-         .0007-	6.00- 6.07- 241- 0624 0.09- 0.0 0.0 0.014- 0.031  4.02- 4.02- 0.07- 221- 0.024 0.09- 0.0 0.00- 0.0017- 0.034  4.02- 4.02- 0.07- 0.024 0.07- 0.00- 0.00- 0.0017- 0.034  2.01- 2.01- 0.017- 0.024 0.027- 0.00- 0.0017- 0.0017-  2.01- 2.01- 0.017- 0.024 0.037- 0.00- 0.0017- 0.0017-  2.01- 2.01- 0.017- 0.024 0.037- 0.00- 0.0017- 0.0017-  2.01- 2.01- 0.017- 0.027- 0.037- 0.00- 0.0017- 0.0017-  4.01 4.01 8.16 0.027 0.077- 0.077- 0.00- 0.0017- 0.0017-  12.02 12.02 0.077- 0.077- 0.077- 0.00- 0.0010- 0.0017-  12.02 12.02 0.077- 0.077- 0.077- 0.00- 0.0010- 0.0017-  12.02 12.02 0.077- 0.077- 0.077- 0.00- 0.0010- 0.0017-  12.02 12.02 0.077- 0.077- 0.077- 0.00- 0.0010- 0.0017-  14.01 10.02 0.077- 0.027- 0.00- 0.0017- 0.007-  16.01 10.02 0.007- 0.007- 0.007- 0.007- 0.007-  20.01 20.00- 0.007- 0.007- 0.007- 0.007- 0.007-  20.01 20.00- 0.007- 0.007- 0.007- 0.007- 0.007-	Z	ď	8	· _		3		>	5	3	ပ
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					PORCE ALES - CATAR			HEI 34.700	E 1	11/19/47
LOW-SP	EED WIND	LOWNE	LOW-SPEED WIND TUNNEL FINAL DATA SHEE	_	MOMENT ARE STAR	£		inch ma	•	120.0
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9	-51-	• 32	-115	.0266	.039-	10.05	10.05-	.0244	.0043	-190
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	3					i	POWER ARES	STAB .		172		11/19/48
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8 8		THINK COLLD WIND THINKE FINAL DATA CHEE						ria	201111
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¥	LOW-SPEED WIND TUNNEL FINAL DATA SHEET	TUNNEL	FINAL	DATA S		MOMENT ALES STAM	č	_	C-64	•	120-7
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2	• 20	-05		•60°	.0251	-03.	10.	.01	-0200·	•0050	.000
	16.3	2.77	· •	.207	.0201	-600°	16.	.01	-000.	\$200.	.000
•	4.91	4.11		.386	•0343	• 016	10.	. 10.	-4100	.0500.	\$0.
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0	8.01	9.19		.561	. 05HG	• 041	• 01	0.	- 0014-		600
	10.03	10.24		.577	>620°	. 660.	10.	10.	2,18	.0014	000
8	12.00	12.24		.775	£260°	•101•	.01	.01	.0015-		100.
<u></u>	16.91	14.28		. 883	911.	611.	. 16*	, 1c.	-1100.	. Frco.	.500
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ŗ	18.70	18.30		. 944	. 2013	123	16.	10.	-1160.	. 000	-500.
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	COLOR WIND LOWING THAT PAIN JUST				MOMENT AZES STAR	5		G-45	•	120.0
I	ם מ	8	, J	C <sub>0</sub>	5	4,6	*	C.	3	Ç
~	8.52	6.19	200	.0645	.031	12.03-	12.03-	.0235-	-6000	-170.
4	B.01	8.14	.557	.0623	.033	10.03-	10.03-	·- LL 20°	-4200-	-057-
n	10.0	8.18	.557	0.35	900	6.03	0.53-	.02450-	-0200	-040-
•	8.32	8.19	<b>.</b> 562	-0602	5	6.03-	6.53-	-0810	-5:03	-028-
-	8.62	8.19	. 562	,0554	.057	4.53-	-£C-+	-01.76-		-610-
30	8.21	8.18	.563	. pesa.	S	2.04-	2.04-	-6677-	+000°	-660.
ó	10.8	8.19	.562	1950.	.062	. 35.	. 50 ·	-6120	• 0014	.001
0	11.0	8.18	.565	-0630	. 88	2.01	<b>Z.</b> 61	• 00:51	.0028	•005
	8.02	6.19	.563	.6597	.057	4.02	4.02	.0111	er 30.	•10•
12	8.3%	8.19	.541	***************************************	• 050	6.02	6.02	.0166	.0694	0.30
4,	8.72	8.19	.553	0602	0.00	6.01	10.8	.0217	•0054	.042
ទ :	10.8	8.18	.367	-0612	.042	10.01	10.01	. D247	- C950 •	CHO.
0	8.32	8.20	.572		.035°	12.02	18.5%	-050·	19000	e70.
	* 91-	٠		. LAPS	14 CUMB	is esta	* ***	#1 # # **	A. 17.70	
÷	10.				4	es en	n \	. झार अ	•••	

2.73 - 7.59 - 107 - 0.627 - 2.237 - 0.00 - 0.00 - 0.0015 - 0.0023 - 0.0032 - 0.00 - 0.00 - 0.0015 - 0.0023 - 0.00 - 0.00 - 0.0015 - 0.0023 - 0.00 - 0.00 - 0.0015 - 0.0023 - 0.00 - 0.00 - 0.0013 - 0.0023 - 0.00 - 0.00 - 0.0013 - 0.0023 - 0.00 - 0.00 - 0.0013 - 0.0023 - 0.00 - 0.00 - 0.0013	6.72- 5.96257 .6683 .22700 .00 .00160027002700 .001600270	2	4554				PORCE AMES 5.1	Da 10		143-1	1	11/10/62
α <sub>1</sub> α <sub>2</sub> ψ         ψ<	6.73- $5.66$ - $5.27$ $6.65$ $2.23$ - $0.00$ $0.0$ $0.015$ - $0.023$ $4.50$ - $3.56$ - $3.53$ - $5.76$ 4 $2.13$ - $0.00$ $0.0$ $0.00$	M	PEED WIND	IUNNES FIR	AL DAIA			44			•	125.1
8.72- 7.99- 1107 0683 223- 000 000 00013- 00023  4.50- 3.66- 2.251 0.754 2.13- 0.00 0.00 0003- 00013	8.74- 7.59- 1107 .0527 .22300 .00 .00150027  4.50- 3.64253 .0764 .21370 .00 .00 .00130027  2.73- 1.57514 .0877 .19600 .00 .00 .00130013  2.73- 1.57514 .0877 .19600 .00 .00 .00130013  2.73- 1.57514 .0877 .19600 .00 .00130013  2.73- 1.57514 .0877 .19600 .0000130013  4.72  4.22  4.29 .1477 .19700 .0000130	چ	ฮ	, ט	J	ဌ	ۍ	4	*	3	3	ပီ
6.72-       5.46-       .257       .6683       .223-       .00       .0013-       .6082         4.00-       3.64-       .343       .0764       .213-       .70       .00       .000       .0013-       .0016         2.73-       1.57-       .514       .6877       .156-       .00       .000-       .0013-       .0016-       .0016-       .0016-       .0016-       .0016-       .0016-       .0016-       .0016-       .0016-       .0016-       .0011-       .0016-       .0016-       .0011-       .0016-       .0016-       .0011-       .0016-       .0011-       .0016-       .0011-       .0016-       .0011-       .0016-       .0011-       .0016-       .0011-       .0016-       .0011-       .0016-       .0011-       .0016-       .0011-       .0016-       .0011-       .0016-       .0011- <td>6.73-       5.96-       .250       .0663       .227-       .09       .00</td> <td>~</td> <td>8.76-</td> <td>3.</td> <td>•167</td> <td>.0629</td> <td>.237</td> <td>00.</td> <td>00</td> <td>.0014-</td> <td>• 00 3 3</td> <td>-000</td>	6.73-       5.96-       .250       .0663       .227-       .09       .00	~	8.76-	3.	•167	.0629	.237	00.	00	.0014-	• 00 3 3	-000
2.03-       3.56-       .343       .574       .213-       .70       .00       .000-	2.33       .0764       .213-       .79       .00       .0037-       .0016         2.34       .0877       .196-       .00       .00-       .000-       .0013         2.31       2.34       .0877       .196-       .00       .00-       .000-       .000-         2.31       2.24       .757       .1197       .141-       .00       .00-       .0076-       .000-         4.02       4.02       .089       .1407       .141-       .00       .00-       .000-       .000-         6.00       6.00       6.00       .00-       .00-       .00-       .000-       .000-         6.00       6.00       6.32       1.057       .1679       .124-       .00       .00-       .000-         10.03       10.43       .1679       .1679       .164-       .00       .00-       .000-       .000-         10.03       10.43       .1679       .164-       .079-       .000-	١,	-£C.9	2.46-	·25.	. C880 .	-623-		00.	.0013-F	2203	-000.
2.03-       1.57-       .514       .06877       .196-1       .00       .00-       .000-       .	2.03-       1.57-       .514       .0877       .197-       .00       .00-       .00	4	4.50-	3.54-	.343	.5764	-213-	t raud.	00.	-0000	.0016	-000-
2.31 2.24 .757 .1197 .19900 .00007600094- 4.02 4.29 .889 .1407 .14100 .000070071- 6.00 6.32 1.517 .1679 .12400 .0000770071- 10.03 10.43 1.273 .2254 .009300 .0000770071- 12.01 12.44 1.399 .2687 .07300 .0000760071- 14.00 14.47 1.517 .3257 .05600 .0000710071- 16.00 16.49 1.319 .3257 .05600 .0000710051- 16.00 16.49 1.319 .3257 .05600 .0000710051- 16.00 16.49 1.319 .3257 .05600 .0000710051- 18.01 18.46 1.429 .4726 .00400 .0000710054- 20.71 20.42 1.319 .5277 .072056 .0000110051-	2.51 2.24 .757 .1197 .19500 .0000760001. 4.52 4.29 .889 .1477 .14150 .0000770011- 6.50 6.32 1.517 .1679 .12450 .0000770011- 8.72 8.38 1.154 .1952 .1082 .108400700110015- 10.73 10.43 1.273 .2264 .009300 .00007700116- 12.01 12.44 1.397 .2687 .07300 .000000010018- 14.70 14.47 1.517 .3277 .053200 .000000160071- 16.00 14.47 1.517 .3777 .03300 .000000110054- 16.01 18.46 1.427 .3777 .03300 .000000110054- 20.21 20.42 1.319 .5277 .07200	•	2.03-	1.57-	.514	.0877	-951•	عدانه	000	-8000·	C: 00•	.001
2.31       2.24       .757       .1190       .190-       .000-       .0	2.31       2.24       .757       .1197       .193-       .00       .00-       .000-	•	-00		-637	1011	-177	i i	00	-90000	. 0012	-600-
4.52       4.26       .888       .1437       .141-       .90       .90-       .007-       .0011-         6.90       6.30       1.517       .1679       .124-       .70       .00-       .003-       .0015-         8.72       8.38       1.154       .1932       .103-       .003-       .00       .00-       .0016-       .0016-       .0018-         10.73       10.43       1.254       .093-       .090       .00-       .0018-       .0018-       .0018-         12.01       12.44       1.397       .2687       .073-       .00       .00-       .0016-	4.26       4.26       .0899       .1407       .141-       .00       .00-       .0007-       .00015-         6.00       6.32       1.517       .154-       .0124-       .00       .00-       .0007-       .0016-         10.73       10.43       1.5273       .2264       .093-       .00       .00-       .0007-       .0016-         10.73       10.43       1.273       .2264       .093-       .00       .00-       .00018-         12.01       12.44       1.397       .2267       .073-       .00       .00-       .00018-         14.70       14.47       1.510       .3257       .056-       .00       .00       .0016-       .0016-         16.00       16.49       1.510       .3277       .0377       .00	~	2.31	2.24	.757	.1190	-193-	41.2	-00.	-90000	-80000	.00.
6.50 6.32 1.517 .1679 .12470 .00000730015- 10.73 10.43 1.273 .2254 .09300 .00000730018- 12.01 12.44 1.399 .2687 .073-! .00 .0000050031 14.70 14.47 1.517 .3257 .05300 .00 .00 .00160031 16.00 16.40 1.57! .3777 .053200 .00 .0000110054- 18.01 18.40 1.429 .4725 .04400 .0000110054- 20.71 20.42 1.319 .5777 .07205 .0000 .000011-	6.00 6.32 1.0517 .1679 .12470 .00000730015-  8.72 8.38 1.154 .1932 .10300300 .00007300116-  10.73 10.43 1.273 .2254 .00300 .0000710071-  12.01 12.44 1.397 .2557 .05500 .0000160071-  14.70 14.47 1.517 .3257 .05500 .00 .00 .00160071-  16.00 16.49 1.571 .3777 .03300 .00 .00 .00110054-  18.01 18.46 1.429 .4725 .04400 .0000110054-  20.71 20.42 1.319 .5277 .07205 .00 .00 .00 .0011-	D.	4.52	62.4	. 883	-1407	-141-		-00-	-2000	-0011-	.003
8.72       8.38       1.083       .1083       .00       .00       .00       .0013       .0018         10.73       10.43       1.273       .2264       .003       .003       .000       .000       .0001       .00018         12.01       12.44       1.397       .2687       .056       .00       .00       .0016       .00016       .0021         16.00       16.00       16.40       1.571       .3717       .0532       .00       .00       .0011       .0054       .00         18.01       18.46       1.420       .4726       .044       .00       .00       .0011       .0054       .0011       .0054	8.72 8.38 1.154 .1932 .10360 .60 .60601760166011 .20186011 .2264 .0036036011 .20186011 .20186011 .2019 .2687 .67360360060266011 .2019 .2687 .673605601 .60166011 .2019 .2011 .2012 .	0	9.30	6.32	1.517	. 6291.	-124-		200	-SC00*	-9100-	CO.
10.73 10.43 1.27? .2264 .09399 .9000000010018- 12.01 12.44 1.399 .2687 .073-! .00 .0000000060001 14.70 14.47 1.519 .3257 .05699 .00 .00 !0016007! 16.00 16.47 1.57! .3777 .053290 .00 .001!0054- 18.91 18.46 1.429 .4725 .04490 .00 .001!0054- 20.51 20.42 1.319 .5275 .07295 .90 .000011-	10.73 10.43 1.27? .2264 .09309 .0000000010018- 12.01 12.44 1.390 .2687 .073-! .00 .0000000060001 14.70 14.47 1.510 .3257 .05500 .00 .00 .00160071 16.00 16.40 1.57! .3777 .053206 .0000110054- 18.01 18.46 1.420 .4725 .04400 .00 .0000110054- 20.51 20.42 1.319 .5275 .07205 .05 .00 .002800110	11	8.72	84.58	1.154	.1932	-109-		-02	-000	-01:00	.000
12.01 12.44 1.390 .2687 .073-! .00 .0000560001 14.70 14.47 1.510 .3257 .05600 .00 ! .00160021 16.00 16.40 1.57! .3777 .05300 .00 ! .00160071 18.01 18.46 1.420 .4725 .04400 .00001100554-	12.01 12.44 1.390 .2687 .073-! .00 .0000000060001 14.00 14.47 1.510 .3257 .05500 .00 .00 .00160021 16.00 16.40 1.57! .3777 .053200 .30 .0024007 18.01 18.46 1.420 .4725 .04400 .0000110054- 20.01 20.42 1.319 .5275 .07205 .05 .007 .007	i i	10.73	10.43	1.273	.2254	-6003-		66.	.000	-8160.	.003
14.70 14.47 1.510 .3257 .05500 .00 .00 .00160021 16.00 16.40 1.57! .3717 .05300 .00 .00 .00240071 18.01 18.46 1.420 .4725 .04400 .0000110054-	14.70 14.47 1.510 .3257 .05500 .00 .00 .00160021 16.00 16.40 1.57! .3717 .053200 .30 .50 .0024007! 18.71 18.46 1.429 .4725 .04400 .00 .001!0054-	Š	12.01	12.44	1.390	-2687	•673-	•	-00	-9030	. 1000.	636.
16.00 16.49 1.57! .3717 .673206 .50 .6024007! 18.01 18.46 1.429 .4725 .04406 .00001!-! .0654- 20.5! 20.42 1.319 .5275 .07205 .05 .00 .00280019	16.00 16.49 1.57! .3717 .67206 .30 .602406 .07! 18.01 18.46 1.429 .4725 .04406 .00061!0654- 20.01 20.42 1.319 .5275 .67206 .06 .06280019	16	14.70	14.47	1.510	.3257	-0590	الديب	50.	-9100.	.6021	-100
18-91 18-46 1-429 4725 -044- 090 000- 0011- 00554- 20-51 20-42 1-319 -5275 -072- 050 000 00028- 00519	18-01 18-46 1-429 4725 -044- 000 000- 00011- 00554- 20-51 20-42 1-319 -5275 -072- 055 05 0028- 0519	17	16.00	16.49	1:37	7175.	-033		• 50	• C024-	.0571	-900
20.42 1.319 .5275 .07230 .00 .00 .0039	20.42 1.319 .5275 .07230 .00 .00 .0019	18	18.21	18.46	1.423	.4726	-7.00	.37.784	-00	.0011-	-0054-	• 005
		0	20.31	20.42	1.319	• 52.7.5	-672-	S0.	00.	•002B-	•0010	-6100

The different wind number filted Data SHEFF section 5.7 mg $\frac{1}{4}$ $\frac{1}{$					!	FORCE ATTS	AIR STAS	•	F	Ten 343-1	Ĭ	11/19/63
α/ε         C/ε         V/ε         V/ε         C/ε         C/ε           θ. 01         θ. 1         1.15°         1.94°         1.31°         1.20°         1.20°         1.20°         0.05°	IN-SPI	EED WIND	TOWNET	FINAL DATA	SHEET	***************************************		r			•	120,7
8.01 8.35 1.142 1.1941 1.129 10.03- 10.03- 00281- 00083- 0	٤.	8	ื่อ	ئ	<b>.</b>	0	E	W.	4		3	
8.00 8.35 1.142 1.194 1.194 1.194 10.034 10.034 0.0231 0.00334 0.00334 0.00434 0.00434 0.00434 0.0044 0.1942 1.1942 1.1942 1.1942 1.1942 0.0044 0.005	2	8.51	8.36	1.132		94.3	-121-	12.02-	12.02-	-1520.	1-6500.	080-
8.01 8.37 1.145 .1940 .119- 6.02- 6.0201470054- 8.01 8.37 1.145 .1940 .119- 6.02- 6.0201470054- 8.01 8.37 1.154 .1947 .119- 6.02- 6.0201470054- 8.02 8.03 8.36 1.153 .1943 .109- 2.02- 2.0200750033- 8.03 8.03 8.03 1.154 .1973 .109- 2.0200700540057- 8.04 8.05 8.06 1.150 .1973 .109- 2.020070057- 8.05 8.05 8.05 8.05 1.154 .1973 .115- 6.06 6.06 .0131 .0054- 8.05 8.05 8.05 8.05 1.154 .1973 .115- 6.06 6.06 .0131 .0054- 8.05 8.05 8.05 8.05 1.154 .1973 .115- 6.06 8.05 .0077- 8.05 8.05 8.05 1.141 .1973 .126- 10.01 10.01 .00520077- 8.05 8.05 8.05 1.145 .1973 .126- 10.01 10.01 .00520077-	6	8.50	8.35		• 1	¥43 :	.129-	10.53-	10.03-	•0233-	-5700.	-071-
8.51 8.37 1.147 .1957 .119- 6.02- 6.0201470054- 8.51 8.37 1.153 .1957 .111- 4.01- 4.0101750045- 8.52 8.55 1.154 .1972 .109- 2.02050570575- 8.51 8.37 1.157 .1973 .109- 2.02 .5545 .5575 8.51 8.37 1.157 .1943 .112- 4.05 4.62 .5545 .5575 8.51 8.37 1.157 .1943 .112- 4.05 4.62 .5575 .0575 8.51 8.36 1.141 .1972 .115- 6.05 6.05 .0131 .0565 8.51 8.36 1.141 .1973 .156- 10.01 10.01 .0582 .0077 8.51 8.36 1.141 .1973 .186- 10.01 10.01 .0582 .0077		8.36	8.36		• 1	945	·187-	8.73-	8.23-	-201.32	-6900-	-0500
8.01 8.37 1.147 1957 119- 4.01- 4.01- 4.01004500450045004500450055-	4)	8.71	8.37	1.145	•	947	-119-	6.02-	6.02-	-61470	-0500	-650.
8.50 8.36 1.153 .1953 .103- 2.02- 2.02- 0.0554- 0.0532- 8.50 8.56 1.154 .1972 .109- 2.02 0.09- 0.007- 0.0512- 8.51 8.57 1.154 .1973 .103- 2.02 2.02 0.0545 0.0573 8.51 8.57 1.154 0.1973 0.115- 6.06 6.00 0.0131 0.0643 8.51 8.36 1.141 0.1973 0.115- 6.06 6.00 0.0131 0.0643 8.51 8.36 1.141 0.1973 0.126- 10.01 10.01 0.0822 0.0072 8.51 8.36 1.141 0.1973 0.126- 10.01 10.01 0.0872	9	8.51	8.37			- 156	-1111-	4.51-	4.51-	-017:	5.00.	-540.
8.55 8.56 1.154 .1972 .109- 2.05 .559550550755075 .55075	•	31.0	8.36		• 1	i Eyń	-103-	2.58-	2.32-	-1500	• CC 35•	-110.
8.51 8.37 1.157 1.157 .104- 2.02 2.02 .0545 .5675 .5673 .6675 .6673 .6673 .1041 .1057 .115- 6.06 6.05 .0131 .0647 .0647 .8.51 8.36 1.141 .1913 .126- 10.01 10.01 .0222 .0672 .0672 .137- 12.06 12.06 .0234 .0045	Z)	8.30	8.36			646	-1001-	-00	000	-5000	-5012-	50C.
8.51 8.37 1.154 .1943 .112- 6.52 4.62 .6635 .6623 8.51 8.36 1.141 .1921 .119- 8.01 8.51 .0137 .0055 8.51 8.36 1.141 .193 .126- 10.51 10.51 .0272 .0072 8.51 8.36 1.141 .193 .126- 10.51 10.51 .0272	10	8.21	8.37	1-157	• 1.	973	-107-	2.08	2.02	.5545	. 5000	910
8.51 8.36 1.141 .1921 .119- 8.01 8.51 .0037 .0050 8.51 8.36 1.141 .1921 .186- 10.51 10.51 .0832 .0077 8.51 8.36 1.145 .1925 .132- 12.00 12.50 .0234 .0545	1 1	8.51	8.37	1.154	10		-112-	20.3	4.08	• 6636	• EC23	. 200
8.36 1.141 .19.3 .119- 8.01 8.51 .0137 .0072 .00	22	0.	B. 10	1.167	. ,	650	•115-	• 50· <b>9</b>	\$C •9	. 25 10.	.0540	E+0.
3-21 8-36 1-141 -1913 -186- 10-21 10-21 -0882 -0072 3-71 8-36 1-145 -1925 -132-12-06 12-36 -0278	13	8.51	8.36			. 126	-1119-	10.8	10.8	£10.	0930	. 6057
30.71 80.36 10145 0.02 12.00 12.00 0.02 18 0.00 RS	17	8.51	8.36			.= .	•18¢-	10.01	10.01	- 5630.	. 6700	.073
	15	3.71	8.36	-	• 1	928	•132	12.00	12.36	.52 vil	.05RS	160.
The second base of the second ba						,			• •	A 15	• • •	•
	r	•		ē. 1	1	<b>41.</b>	1 %	TPAI			e de late	•
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7		Tunnic r			FORE ALES STAR		Z	1-6 v6 1911	¥	11/19/63
· ·	SPEED WIND	I DANKE I	INAL DATA	-	MOMENT ARES STAR		•	0-CC #	•	120.7
Ā	້	۵	'ບັ	9	E	-	*	5	3	ن
2	8.02-	7.00-	• 11 9	06.40	.277	00.		00127	.003	1 600
w.	6.02-	3,000	. 201 ·	とからつ・		. 00	306.	-6 i 30.	.0030	-000
4	4.52-	3.30	394	. 7270.	-214-	. 00	00.	-0100	1 6200.	
Ò	-56.2	£ • 87-	-515	*260°	-195-	. 00.	-00°	-8000	. 2260*	• 001
<b>.</b>	-11-	. 19	6537	.1027	-173-	00.	-30.	-2.000	.0923	. 100.
7	2.30	2.24	.76.1	.120g	.169-	00.	-00.	<b>-</b> 4000•	5000	€00°
0)	4.32	4.29	¥. 300 •	F : 4 2 4	-145-	90.	-96.	-5000-	-5000-	. 200
Ø,	6.71	££.33	1.032	.1637	.123-	00.	.200.	-2000	-7500	. 630.
10	8.71	8.37	14156	.2021	-2113-	00.	-000	-500c•	•0033-	.063
. 11	10.01	10.41	1.277	. 2333	-065-	00.	-3C•	-2.000	-9:00	- 003
12	12.30	12.43	1.393	.2722	270.	00	-00.	-6537-	. 1000	. 503
14	14.51	14.45	1.510	.3350	-650.	(· ()	, SC.	-6:00	. 5535	-100.
<u></u>	16.50	16.49	1,554	- 10105 - 1	-031-	000	. 36.	• 6010-	.6001	.053-
16	18.33	18.43	1.207	-4711	-650-	30.	. 22	-64000	.012:	-000
11	20.03	10°41	1.207	. 65576	(.40.	1 CC.	C.	-2400	1000	-916-
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	FED WIND	TUNNEL F	LOW-SPEED WIND TUNNEL FINAL DATA SHEET		MOMENT ARES STAB			51-0	-	120.0
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'n	8.03-	-66	.135	.0646	-240-	00.	00.	-0100.	.0043	100
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ហ	4.02-	3.89-	.425	•0803	-222-	8	-00-	-8000	.0023	.00
'φ'	2.03-	-98	.553	.0929	-508-	00.	-00-	-9000•	.0024	• 000
<b>~</b>	-00-	21	.683	4011.	-181-	80.	-00•	-5000-	.0026	• 000
<b>6</b> 0	2.01	2-26	.807	.1312	-175-	8	00	-5000-	.0020	• 000
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0	6.01	6.34	1.076	. 1833	-143-	• 00	-00•	-9000	1000	• 001
-	8.01	39	1.218	.2147	-127-	00.	-00•	-2000-	-0005-	.003
ຕ້	10.03	10.44	1.333	.2506	-109-	8	-00	-9000	•000•	.002
4	12.01	12.46	1.452	.2903	-260•	8	-00	-6100.	.0017	.000
5	14.02	14.49	1.521	.3323	-063-	••	00.	-0018-	•0034	- 200
16	10.91	16.50	1.567	.3726	-031-i	00.	8	-0015-	.0063	-000
7	18.02	18.45	1.371	.4707	-045-	0	-00-	• 0063	-0178-	.01
18	20.01	20.42	1.316	.5326	-072-	8	8	-1100	9000	.016
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36	COSCO WIND		THE STATE STATE CHIM GOOD WOL		POECE ALES STAB		∴ ≡	RS 343-1	. san	11/19/62
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<b>(</b> )	4.03-	3.91-	.384	•270•	-503-	0	00.	-0000	.0087	-600
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1	-00•	•20	•646	•1002	-179-	8	00•	-0100-	.0072	-800
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2	10.01	10.42	1.302	.2348	-260•	0	00.	-0050-	.0067	-800
61	12.03	12.47	1.417	.2757	-078-	00•	00.	-0035-	• 0078	-600•
4	14.00	14.46	1.488	.3186	-051-	00	00.	-0044-	.0107	-015-
9	18.00	18.42	1.356	•4565	-150	00.	-00•	.0023	-0116-	• 900•
17	20.01	20-41	1.285	.5062	-890	8	0	-0055-	-6000•	-014-
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4.02-       4.02-       4.02-       .0325       .042       .00       .00       .0065       .0013         2.02-       2.03-       .0361       .032       .00       .00       .0062       .0061         3.04-       2.16       .0372       .0362       .014       .00       .00       .0062       .0062         3.04-       2.16       .191       .3324       .014       .00       .00       .0063       .0065         4.01       4.01       4.01       .0342       .006       .00       .0067       .0067         5.02       5.02       .0416       .006       .00       .0067       .0067       .0067         6.03       6.03       6.03       .007       .007       .007       .0067       .0067         13.04       13.07       13.07       .034       .00       .00       .0016       .0016         13.02       13.02       .036       .00       .00       .00       .0016       .0016         13.02       13.02       .036       .00       .00       .000       .0016       .0016         13.02       13.02       .036       .00       .00       .000       .0016 <td< td=""><td>4.02-       4.02-       4.02-       .035-       .035-       .035-       .035-       .036-       .00       .00       .006-       .00</td><td>'n</td><td>5.03-</td><td>6.12-</td><td>1</td><td>-306</td><td>5040.</td><td>. 050</td><td>8</td><td>00</td><td></td><td>. 3014</td><td>.02%-</td></td<>	4.02-       4.02-       4.02-       .035-       .035-       .035-       .035-       .036-       .00       .00       .006-       .00	'n	5.03-	6.12-	1	-306	5040.	. 050	8	00		. 3014	.02%-
2.02- 2.030320361 .033 .00 .00 .00 .0053 .00010101 .072 .0363 .021 .00 .00 .00 .0051 .0053 2.04	2.02- 2.0305203(1) .033 .00 .00 .00 .0053 .00(1-  3.04		30.	4.07		184-	.0335	. 043	00.	00	9•00.	. 0013	.020-
3.04       .01       .00	3.04       .01       .00       .00       .00       .00       .00         3.04       2.16       .191       .03s2       .01s       .00       .00       .00       .00c         4.01       4.01       .03s2       .00c       .00       .00       .00c       .00c </td <td>m</td> <td>2.08-</td> <td>2.03·</td> <td>Ĭ</td> <td>-250</td> <td>.0361</td> <td>.033</td> <td>00.</td> <td>00.</td> <td>. 5300 ·</td> <td>-1000.</td> <td>-510.</td>	m	2.08-	2.03·	Ĭ	-250	.0361	.033	00.	00.	. 5300 ·	-1000.	-510.
2.04       7.16       .191       .03e2       .01e       .00       .00       .00c	\$.04	•	.01-	•		22.0	.0363	.021	.00	00	. 505	£300.	-010-
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3.05       A.21       .55       .06       .00 <td< td=""><td>3.c5 A.2: .55 .0662 .01600 .00 .0016 .0016 .00065 13.c0 12.26 .0824 .02700 .00 .0016 .00065 13.c0 12.26 .0847 .1026 .03400 .00 .00 .0006 .0016- 15.c1 13.31 .929 .1246 .04100 .00 .0002 .0012- 15.c1 13.35 1.069 .1674 .05203 .00 .0002 .0013- 20.c1 20.31 .927 .3022 .10000 .00 .00 .0002</td><td>0</td><td>6.63</td><td>6-17</td><td></td><td>47c</td><td>. 0521</td><td>-000</td><td>J0.</td><td>6</td><td>. 400.</td><td>3000.</td><td>- 300 •</td></td<>	3.c5 A.2: .55 .0662 .01600 .00 .0016 .0016 .00065 13.c0 12.26 .0824 .02700 .00 .0016 .00065 13.c0 12.26 .0847 .1026 .03400 .00 .00 .0006 .0016- 15.c1 13.31 .929 .1246 .04100 .00 .0002 .0012- 15.c1 13.35 1.069 .1674 .05203 .00 .0002 .0013- 20.c1 20.31 .927 .3022 .10000 .00 .00 .0002	0	6.63	6-17		47c	. 0521	-000	J0.	6	. 400.	3000.	- 300 •
13.CG 12.ZE .847 .1026 .034 .00 .00 .00 .00E .00E- 14.CI :3.31 .9E9 .1246 .001 .00 .00 .00E .001E- 15.CI :5.32	13.C0 12.2£ .847 .1026 .034 .00 .00 .00 .00 .0005 .0066-14.C1 13.2£ .9£7 .1276 .03400 .00 .00 .0005 .0016-15.C1 13.3£ 1.0€ .1674 .05205 .00 .0002 .0012-13.0€ 13.3€ .23€C .08505 .00 .0002 .0013-20.C1 20.31 .9€7 .3082 .109-	-	3.00	n.2:	. • !.	356	. 0668	-016-	• 60	. 00.	.0016	· 1000.	- 700
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#### 4.0 APPENDIX

## 4.1 NOMENCLATURE

#### Definition of Tests

P Pitch Test; pitch angle variation ( $\psi_g = \text{constant}$ ).

Subscript 6 indicates that six-component force and

moment data were recorded.

Y Yaw Test; yaw angle variation ( $\alpha_g = \text{constant}$ ).

Subscript 6 indicates that six-component force and

moment data were recorded.

HM Hinge Moment; denotes that hinge moment data were recorded at each model test point. The left

flap, left aileron, left elevator and the rudder

were instrumented.

Pressure; denotes that pressure data were recorded

at each model test point. The model was instrumented with orifices, five 48-port Scanivalves, and pressure transducers for digitized punched card

output.

Duct Press Duct Pressure; denotes that duct exit pressure data

were recorded at each model test point from a rake and wall static orifices at the duct exit. These data also were read through the Scanivalve and transducer

system.

Pix Tuft Pix; visible flow patterns recorded photograph-

ically at each model test angle. Flow patterns were made visible by affixing two strand floss tufts to the

model by means of cellophane tape.

#### Coefficients

NOTE: Model force and moment coefficients presented on the figures in this report are referred to stability axes through the model moment reference center as shown in Figure 4.15

- C<sub>L</sub> Lift coefficient, Lift/qS to stability axes, or normal force coefficient on body axes tabulations.
- CD Drag coefficient, Drag/qS to stability axes, or axial force coefficient on body axes tabulations.
- C Pitching moment coefficient, Pitching moment/q8c.
- C Rolling moment coefficient, Rolling moment/qSb.
- C Side-force coefficient, Side-force/qS to stability axes and on body axes tabulations.
- C Yawing moment coefficient, Yawing moment/qSb.
- Sta. 30.75 Subscript "Sta. 30.75" on moment coefficients indicates that the longitudinal location of the model moment reference center is at model station 30.75 with the vertical location as shown in the moment reference diagram in Figure 4.15.

NOTE: A<sub>f</sub>, c<sub>f</sub>, A<sub>a</sub>, c<sub>a</sub>, A<sub>e</sub>, c<sub>e</sub>, A<sub>r</sub> and c<sub>r</sub> are explicitly defined in "Data Reduction Reference Dimensions" in Section 4.4.

- Flap hinge moment coefficient, Flap hinge moment/qA<sub>f</sub>c<sub>f</sub>, identified on tabulations as CH. M F.
- Aileron hinge moment coefficient, Aileron hinge moment/ qAac, identified on tabulations as CH. M A.
- Che Elevator Hinge moment coefficient, Elevator hinge moment/qAchi identified on tabulations as CH. M.E.

- Rudder hinge moment coefficient, Rudder hinge moment/
  qAc, identified on tabulations as CH. MR.
- Pressure coefficient where p is the measured local pressure and p is the test-section free-stream static pressure, and q equals q; on the tabulated pressure coefficients this is noted as PR; also noted as  $\Delta p/q$ .

## Symbols

- Geometric angle of attack of the model wing reference plane relative to the tunnel axis. (Degrees); noted as ALF. G on tabulated hinge moment coefficients and tabulated pressure coefficients.
- Angle of attack of the model wing reference plane relative to the equivalent free air stream (Degrees).
- Geometric angle of yaw of the model plane of symmetry relative to the tunnel axis. (Degrees); noted as PSI. G on tabulated hinge moment coefficients and tabulated pressure coefficients.
- $\delta_{\mathbf{f}}^{\circ}$  Flap deflection in degrees relative to the wing reference plane.
- Aileron deflection in degrees relative to the wing reference plane, positive when the trailing edge is down and noted individually L/R, Left/Right.
- δ e Elevator deflection in degrees relative to the horizontal tail reference plane, positive when the trailing edge is down.
- $\delta_r^o$  Rudder deflection in degrees relative to the vertical tail reference plane, positive when the trailing edge is to the left.
- $\mathbf{q}_{\mathbf{m}}$  Uncorrected dynamic pressure.
- q Dynamic pressure,  $\rho V^2/2$ .
- R.N. Reynolds Number (2.21 million for this test) =  $\rho V \bar{c}/\mu$  where  $\rho$  is the mass density of air,  $\mu$  is the absolute viscosity of air, and V and  $\bar{c}$  are as defined elsewhere in this report.

- x/c Symbol denoting wing orifice location, the distance aft from the wing leading edge expressed as a decimal fraction of the local chord; on the tabulated pressure coefficients x/c is noted under column heading K 1., K 2., and K 3., and is expressed as a percent of the local chord.
- V Average airstream velocity,  $\sqrt{2q/\rho}$ .

## 4.2 DESCRIPTION OF MODEL COMPONENTS

## Symbol

- a<sub>0</sub> Aileron
- Aileron: Same as a except rounded (in chordwise section) at leading edge of outboard end.
- B<sub>0</sub> Fuselage: With canopy and overhead jet intake with simulated ducts.
- D All landing gear doors.
- Main Landing Gear: Superscript f denotes forward location, Fuselage Station 34.40.
- Nose Landing Gear: Located at Fuselage Station 17.10.
- Trailing Edge Flaps: Fowler-type flaps extending spanwise from Wing Station 3.00 to Wing Station 12.594.
- Wing Trailing Edge Flaps: Same as  $F_0$  except with a 1.875 inch spanwise extension at the outboard end with the same constant section as  $F_0$ . The constant section creates a discontinuity with the wing planform at the outboard end of the flap; there was also a discontinuity with the airfoil section at the outboard end of the flap because the wing was decreasing in thickness. Flap  $F_1$  is accommodated only by Wing  $W_1$ .
- Wing Trailing Edge Flaps: Same as F<sub>0</sub> except with an end plate at the outboard end of the deflected flap; the end-plate extended approximately .5-inch above the flap upper surface and .5-inch below the flap lower surface.

Wing Trailing Edge Flaps: Same as  $F_0$  except with a constant 0.50-inch chordwise extension of sheet metal attached to the flap lower surface and faired to the flap with wax on both the upper and lower surfaces.

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- Wing Trailing Edge Flaps: Same as  $F_0$  except with a constant 0.25-inch chordwise extension of sheet metal attached to the flap lower surface and faired to the flap with wax on both the upper and lower surfaces.
- Wing Trailing Edge Flaps: Same as F<sub>1</sub> (extended spanwise) except with the flap gap reduced 0.0025-inch. This was accomplished by covering the flaps entirely with one thickness of cellophane tape, thus, the flap section is also slightly thickened.
- Wing Trailing Edge Flaps: Same as  $F_1$  except with the flap gap reduced 0.029-inch. The additional layers of green fabric and cellophane tape were affixed only to the flap leading edge.
- $F_7$  Wing Trailing Edge Flaps: Same as  $F_1$  except with the flap gap reduced 0.055-inch.
- Wing Fences: Wrap-around type, from wing trailing edge, around leading edge and back to trailing edge. Fence located at 94.5% wing semispan. The fence minimum height, 5% of the wing local chord, extended from the wing point of maximum thickness around the leading edge and back to the wing point of maximum thickness; from that point aft, the top and bottom edges were extended parallel to the wing chord plane. Designed on wing  $W_0$  (outboard sections bent downward 6°) but tested on wing  $W_2$  (bent upward 4°).
- Wing Fences: Same as f<sub>1</sub> except located at 73% wing semispan, and consequently larger.
- Wing Fences: Same as f<sub>1</sub> except located at 56.75% wing semispan, and consequently larger.
- Vortex Generators: Made in strips of vertical flat plate fins mounted at 16° to the chord of the strips. The individual fins had a height of 0.2-inch and a chord of 0.3-inch. Strips of vortex generators were mounted from the fuselage

to the wing tip junction. At the flap the trailing edge of the fins was approximately .07-inch forward of the flap cover plate trailing edge. From the break chord to the wing tip junction, the strip of vortex generators was swept forward so that at the wing tip junction, the trailing edge of the fins was approximately 1.45-inches forward of the wing trailing edge.

- Vortex Generators: Made in strips as described in g<sub>0</sub>, but mounted spanwise across the wing fan covers with the fin leading edges in line with Fuselage Station 32.0 (F.S. 256, full scale).
- Horizontal Tail of tapered planform mounted for a "tee" tail at the top of the vertical tail; the pivot point for horizontal tail incidence is at Fuselage Station 62.073 and Water Line 25.125. The superscript denotes incidence, positive when the trailing edge is down, relative to the wing reference plane.
- Harizontal Tail: Same as Hoexcept with a straight lined 1.0-inch spanwise extension on each side for a total increase in span of 2.0 inches.
- Horizontal Tail: Similar to H<sub>0</sub> except for section and location. Made o .25-inch flat plate with radius leading edge and tips and beveled trailing edge. H<sub>2</sub> was located at Water Line 19.325 (MAC of the vertical tail) with the trailing edges of the vertical and horizontal tails coincident at 0° incidence. The incidence pivot point was approximately in line with Fuselage Station 61.6 and Water Line 18.6. H<sub>2</sub> was tested without transition grit.
- IMAGE Reflection image of the two-strut support for tare evaluation. For the "wing alone" configuration the image included a center-mounted image sting.
- IMAGE Image Sting Center mounted image sting for the "wing STING alone" configuration used in tare evaluation.
  - INV Inverted: to denote model inverted in the test section.
    - Orifice Plate inserted at the engine intake with twin sideby-side orifices of 1.750-inch internal diameter.

- P Orifice Plate: Same as P except orifice internal diameter was 1.375 inch.
- Pressure Rake: Inserted at the aft end of the right-hand duct and instrumented with total head orifices. Static orifices were provided in the duct wall. The center of the rake was located at Fuselage Station 49.80.
- Symbol designating simulated Wing Fan Cover configurations, on the wing upper surface, the simulated wing fan covers, when closed, form a bump that protrudes above the surface of the wing; on the lower surface the cover is characterized by the spanwise corrugations of retracted or closed louvers. The superscript denotes: W, with support struts, and N, without support struts.
- Simulated Wing Fan Cover configuration, with superscripts as defined for  $S_0$ .  $S_1$  was tested only as  $S_1^N$ , without struts.  $S_1$  denotes "bumps" on the upper surface and depressed louvers on the lower surface. The outboard edges of the louvers were depressed .10-inch below the wing surface.
- Simulated Wing Fan Cover configuration, with superscripts as defined for S<sub>0</sub>. S<sub>2</sub> was tested only as S<sub>2</sub>, without struts. S<sub>2</sub> denotes the "bumps" depressed condition on the wing upper surface and louvers on the lower surface depressed as per S<sub>1</sub>; the outboard edges only of the upper surface bumps were depressed 0.10-inch below the wing surface.
- Simulated Wing Fan Cover configuration, with superscripts as defined for  $S_0$ .  $S_3$  was tested only as  $S_3^N$ , without struts.  $S_3$  denotes the absence of bumps on the wing upper surface and the presence of retracted louvers on the lower surface.
- Simulated Wing Fan Covers: "Bumps" on the wing upper surface and simulated closed louvers on the wing lower surface. The height of the upper surface "bumps" was the same as S<sub>0</sub> of the first test phase, but the contour was altered to be a modified rectangle with a flat on the top; the edges and corners of the rectangular bump were faired; the chordwise to spanwise ratio was approximately 3:2. The superscript W denotes with struts, and superscript N denotes without struts.

- TUFTS Tufts of two-strand floss affixed to the model with cellophane tape to observe and/or record visible flow patterns.
- Transition Grit (Carborundum) on designated model parts except H<sub>2</sub> at all times. The superscript denotes fineness and varied only during the grit studies. During most of the test #150 grit was used exclusively. The pattern was as follows:

Transition Grit Strip	Width	Location
Wing at Root	1/2"	1/2" from L. E.
Wing at Break Chord	3/8"	3/8" from L. E.
Wing at Tip	1/4"	1/4" from L. E.
Vertical Tail at Root	3/8"	3/8" from L. E.
Vertical Tail at Tip	1/4"	1/4" from L. E.
Horizontal Tail at Root	3/8"	3/8" from L. E.
Horizontal Tail at Tip	1/4"	1/4" from L. E.
Duct	3/8"	3/8" from L. E.
Nose	1/2"	1-1/2" from Fus. Sta.
		Zero

- Transition Strip of sheet aluminum .35-inch high mounted normal to the surface at Fuselage Station 26.47. The strip extended over the fuselage and duct intake on each side to the wing upper surface.
- Vertical Tail of tapered planform with the rudder hinge line at the 82% chord line. The horizontal tail was attached to a vertical plate which inserted into the vertical tail in such a way that a portion of the vertical mounting plate was left exposed as a section of flat plate when the horizontal tail was on the model.
- V Vertical Tail: Same as V except the horizontal tail mounting plate was faired with model wax to match the vertical tail airfoil section.
- Wing: Generally tapered with rounded tips, the leading edge and trailing edge sweeps are increased at wing midsemispan. The wing was designed to accommodate a vertical lift fan on each side of the fuselage and was equipped with ailerons and Fowler-type flaps, outboard of the wing break chord, the wing panels were bent downward 6°. The outboard panels were twisted (leading edge down) 3° from the break chord to the tip chord about the quarter-chord with non-linear distribution.

- Wing: Same as  $W_0$  except outboard panels are  $0^\circ$ , or "not bent downward", and it had no deflectable allerons. This wing accommodates the spanwise extended flaps  $F_1$ .
- W<sub>2</sub> Wing: Same as W<sub>0</sub> except outboard panels were bent upward 4°; there were no deflectable ailerons.
- Wing: Same as  $W_2$  except with outboard panels shimmed upward to  $6^{\circ}$ .

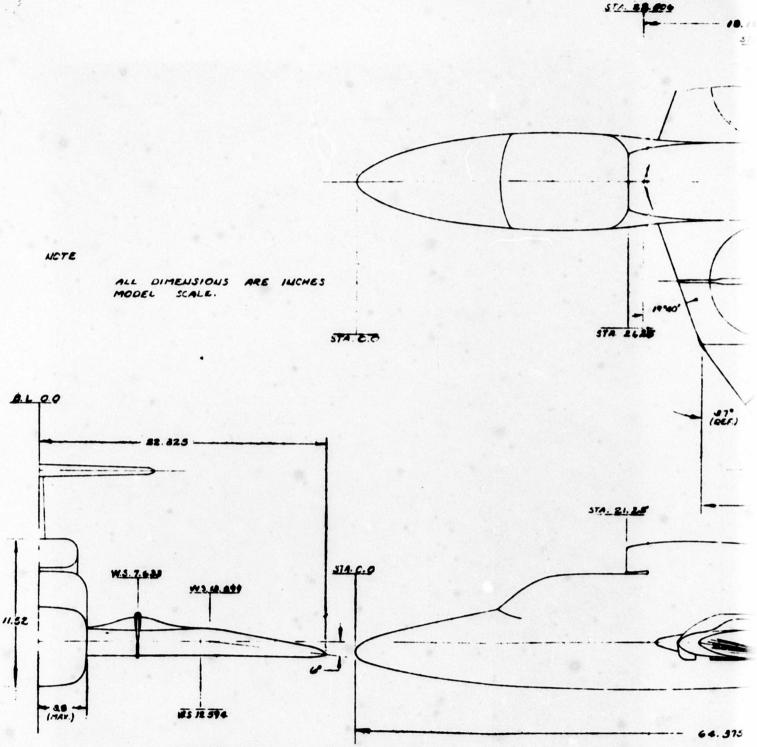
# TABLE 4.1

# MODEL DIMENSIONAL DATA

# 1/8 SCALE RYAN CONVENTIONAL MODEL 143

Area (Theoretical)	4.068 sq. ft.
Root Chord (Theoretical)	18.125 in.
Tip Chord (Theoretical)	5.375 in.
Span	44.650 in.
Aspect Ratio	3.42
Mean Aerodynamic Chord	14.115 in.
Spanwise Location of Mean Aerodynamic Chord	B. L. 9.419
Leading Edge Sweep (Inboard Panel)	19° 40' (Ref)
Leading Edge Sweep (Outboard Panel)	37° "
Flap Area of Two Flaps	0.395 sq. ft.
Aileron Area Aft of the Hinge Line, of Two Ailerons	0.320 sq. ft.
Incidence	o°
Dihedral (Outboard Panels Only)	
w <sub>0</sub>	6° Tips Down
$\mathbf{w_1}$	
W <sub>2</sub> W <sub>3</sub>	4° Tips Up 6° Tips Up
Dundage	
Fuselage Length	64, 375 in.
Maximum Height	11.52 in.
maximum neight	
Horizontal Tail - H <sub>0</sub> Area (Theoretical)	.792 sq. ft.
Root Chord	8, 205 in.
Tip Chord	4, 104 in.
Span	18.526 in.
Aspect Ratio	3.01
Mean Aerodynamic Chord	6. 382 in.
Spanwise Location of Mean Aerodynamic Chord	B. L. 4.117
Leading Edge Sweep	14°41' (Ref)
Elevator Area Aft of the Hinge Line, of Two Elevators	0.190 sq. ft.
Incidence	Variable
Horizontal Tail Incidence Pivot Point Water	Line 25.125
Fusela	ge Sta. 62. 073
Leading Edge Sweep	14° 41' (Ref.)
Elevator Area Aft of the Hinge Line of Two Elevators	0.190 sq. ft.
Horizontal Tail - H,	
Area (Theoretical)	.846 sq. ft.
Root Chord	8. 205 in.
Tip Chord	3.662 in.
Span	20, 526 in.
Aspect Ratio	3.46
Mean Aerodynamic Chord	6. 223 in.
Spanwise Location of Mean Aerodynamic Chord	B. L. 4.477
Leading Edge Sweep	14° 14'
Elevator Area Aft of the Hinge Line of Two Flevators	0.190 sq. ft.
Incidence	0°
Horizontal Tail Incidence Pivot Point- Water Line Fuselage Sta.	25. 125 62. 073
Horizontal Toil - U	
Horizontal Tail - H <sub>2</sub> Tabulated Statistics are the same as H <sub>0</sub> except	
Horizontal Tail Incidence Pivot Point - Water Line	18.6
Fuselage Sta.	61.6
And ${ m H}_2$ had no elevator. ${ m H}_2$ was made of .25-inch she	et aluminum.
Vertical Tail (Without Dorsal Fin)	797 6
Area Post Chard (At Water Line 14, 125)	.797 sq. ft.
Root Chord (At Water Line 14. 125) Tip Chord (At Water Line 25. 750)	6.750 in.
Span (Above Water Line 14. 125)	11.625 in.
Aspect Ratio	1.18
Mean Aerodynamic Chord	10.199 in.
Spanwise Location of Mean Aerodynamic Chord	W. L. 19. 325
Leading Edge Sweep	35°
Rudder Area Aft of the Hinge Line (82% Chord)	0.087 sq. ft.

# 4.3 MODEL GEOMETRY



CONFIGURATION: B.W. F. S. V. H. RYAN MODEL 143 (VERTIFAN) K-SCALE CONVENTIONAL MODEL

A.

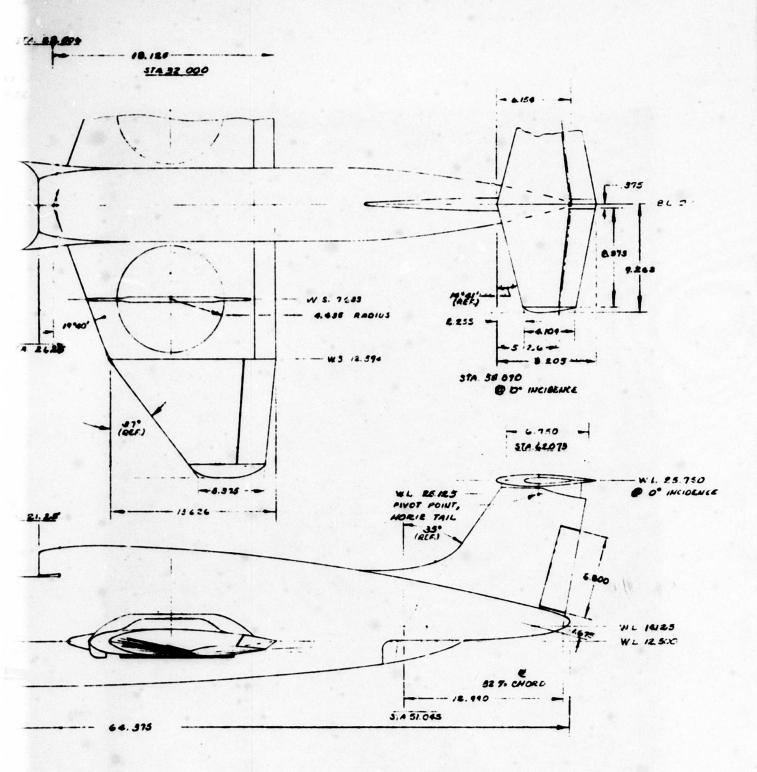


Figure 4.1

B.

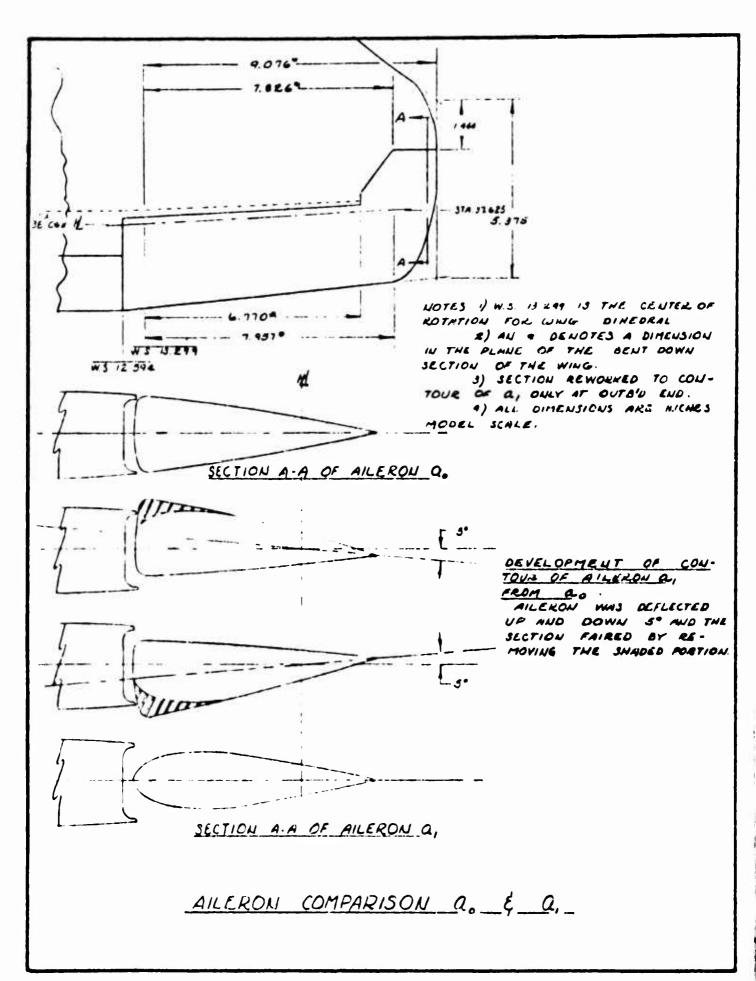
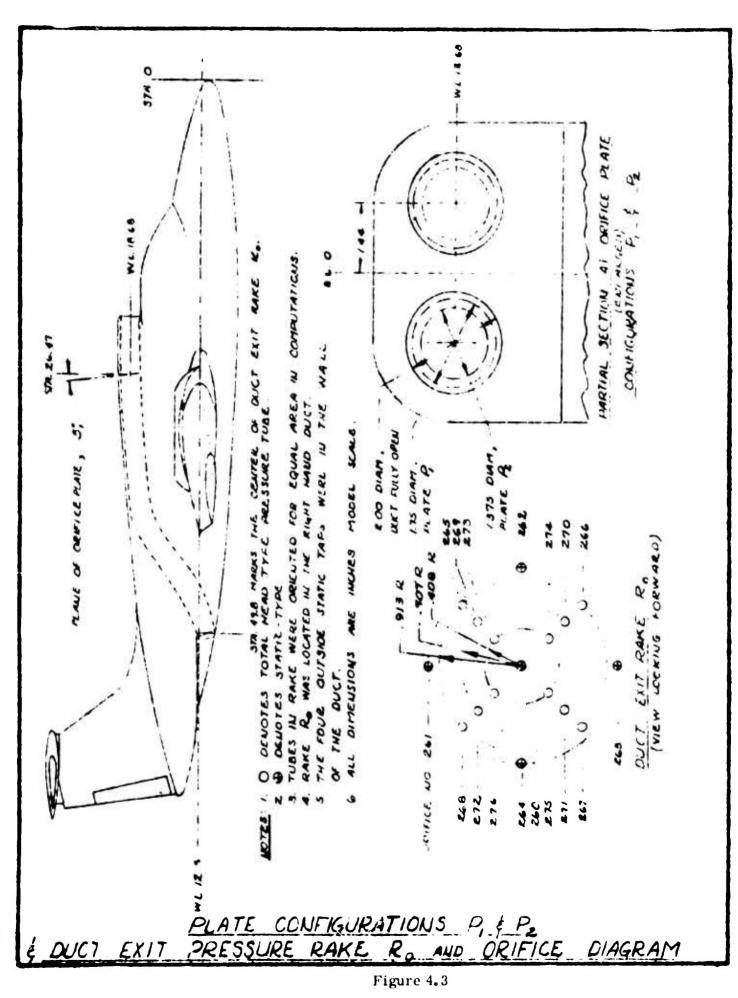
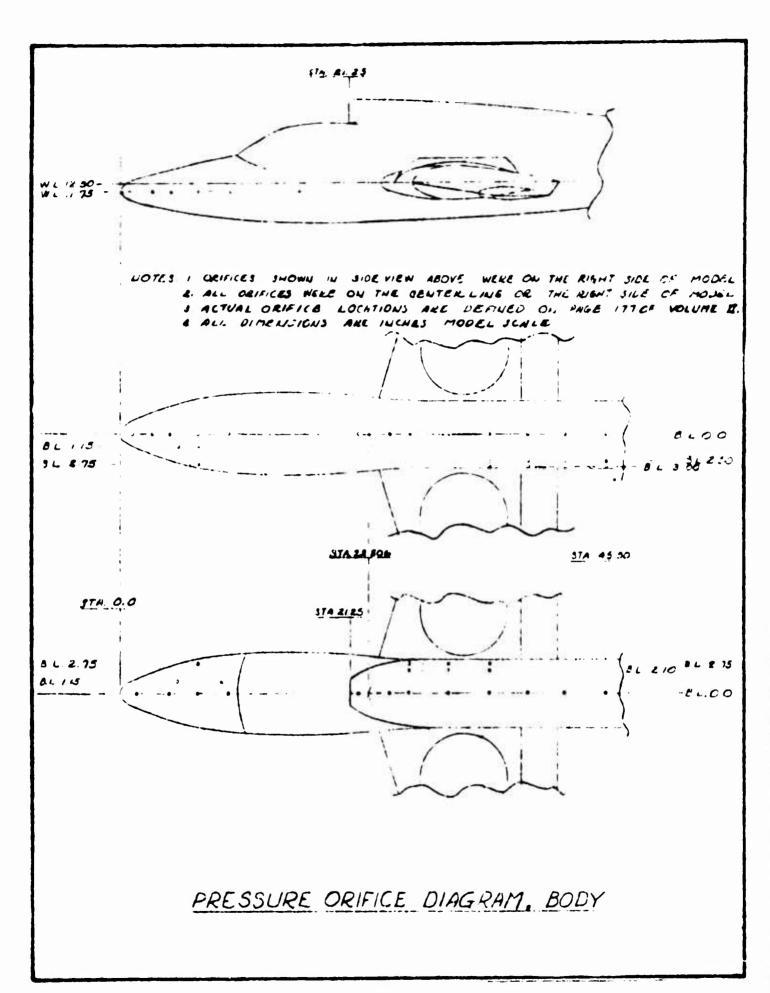


Figure 4.2



(

Figure 4.3



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Figure 4.4

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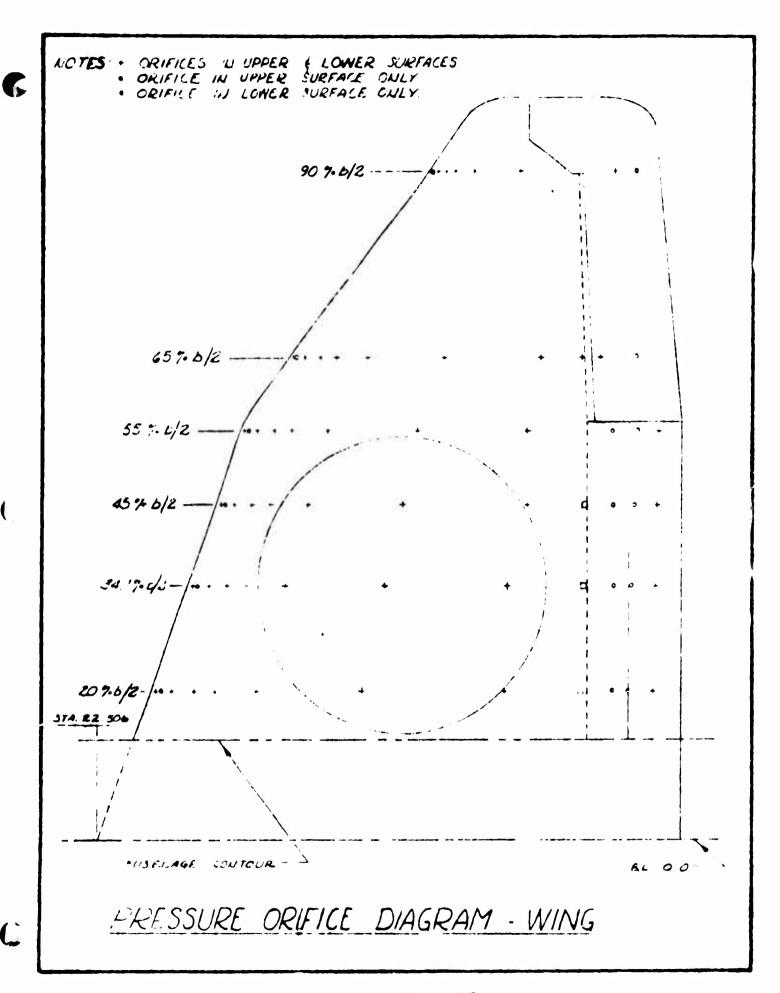
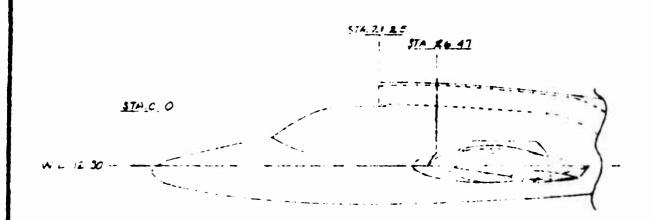
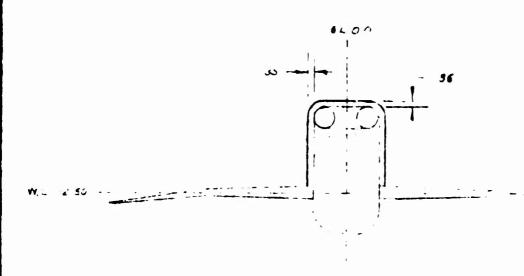


Figure 4.5





SECTION AT STATICN 26.41

NOTES: ALL DIMINISIONS ARE INCHES MODEL SCALE MADE OF 1/16 INCH SHEET ALMINUM.

TRAUSITION STRIP TZ

Figure 4.6

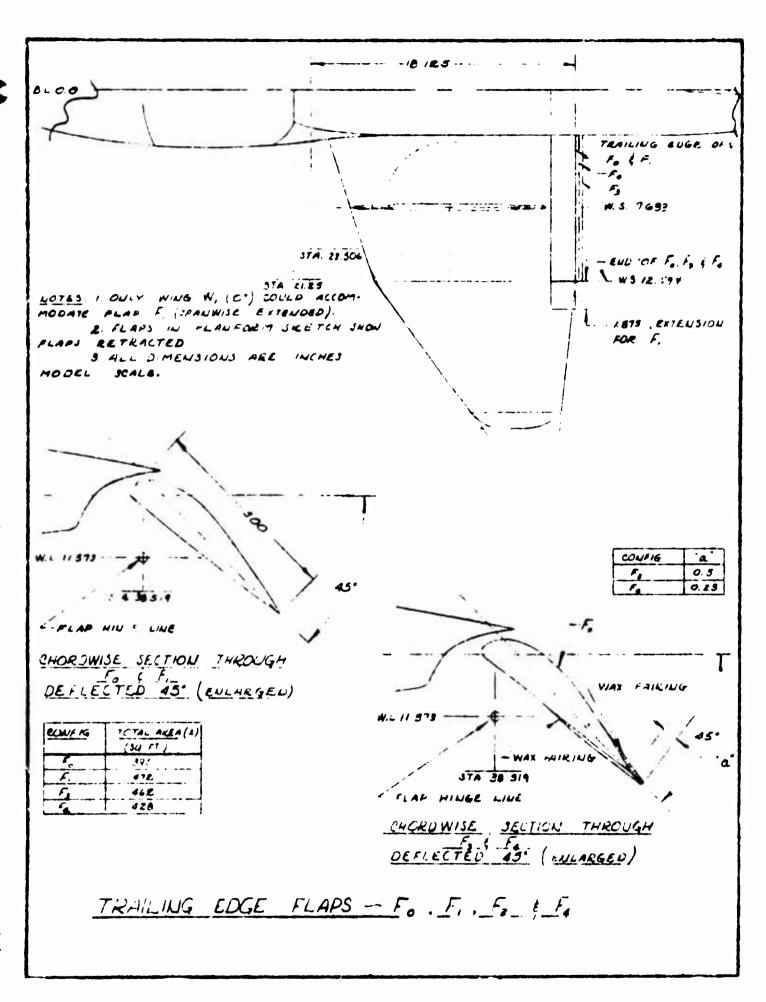


Figure 4.7

W 3 1.635 STA EL 300 STA ZI ZE W \$ 12 594 MOTES . I) ALL CIMENSIONS ARE . WCHES MODEL SCALE. 2) END PLATE WAS MADE OF DE-INCH THICK ALUMNUM.

1) TOTAL FLAP AREA (TWO) . 895 SQ. FT

4) TO SHE AS TO BUT WITH SILL PLATE ADDEL. 45 W.L 12 50 4 1 374 38.614 - TLAP HINGE LIVE VIEW A. A (CUIARGED) TRAILING EDGE FLAP + F2

Sam Jak

Figure 4.8

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STM. 28.306 57A 21 23 fe @ 79 70 SEMISPAN NOTES IN THE PARES FINCE CON FIGURATIONS SHUWL WERE TESTAD "L'UIVIDUALLY 2) SPECIFICATIONS FOR THE THREE FENCES WENG THE JUNGE LOW : OF WING MAK S) APT OF THE IMUM "HICKNESS THE FANCE EDGES WERE EXTENSED PARALLEL TO THE WING CHORD PLINE 39 LACAL CHORD ---ICUAL CHORD (MINIMIM WEGHT) MOTER YOUTUDE AT HILL DIMENSIONS ARE INCHES

COLFIG	LOCATION Y SEM ANN	MCRU	FENCE	FEN'L
1,	74 5	6 4 .	6 72	3.8
1/4	75	103	.104	52
11	36 75		14 28	48

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WING FENCES - f. . fz ALL f.

37A 4C 63 7 A 4 2 200 W 3 7.635 974 21.25 W 3 12:96 DELTION A. A. (ENLA-GED) MOTES IN ALL UIMENSIONS ARE INCHES MODEL SCALE

ZJ FINS MADE OF .OS-INCH
THICK STOCK. DETAIL B-B (ENLANGEL) VORTEX GENERATORS + 90

Figure 4.10

ST# 44 106 E 125 MA SY COC SIA ZI ZS - 5.575 ··· 110725 1) ALL DIMCIAS CUS AKE 2) FINS 29 - INCH MADE OF SECTION H-B (ENLARGED) DETAIL A. A (ENLARGED) VORTEX GENERATORS - 9,

Figure 4, 11

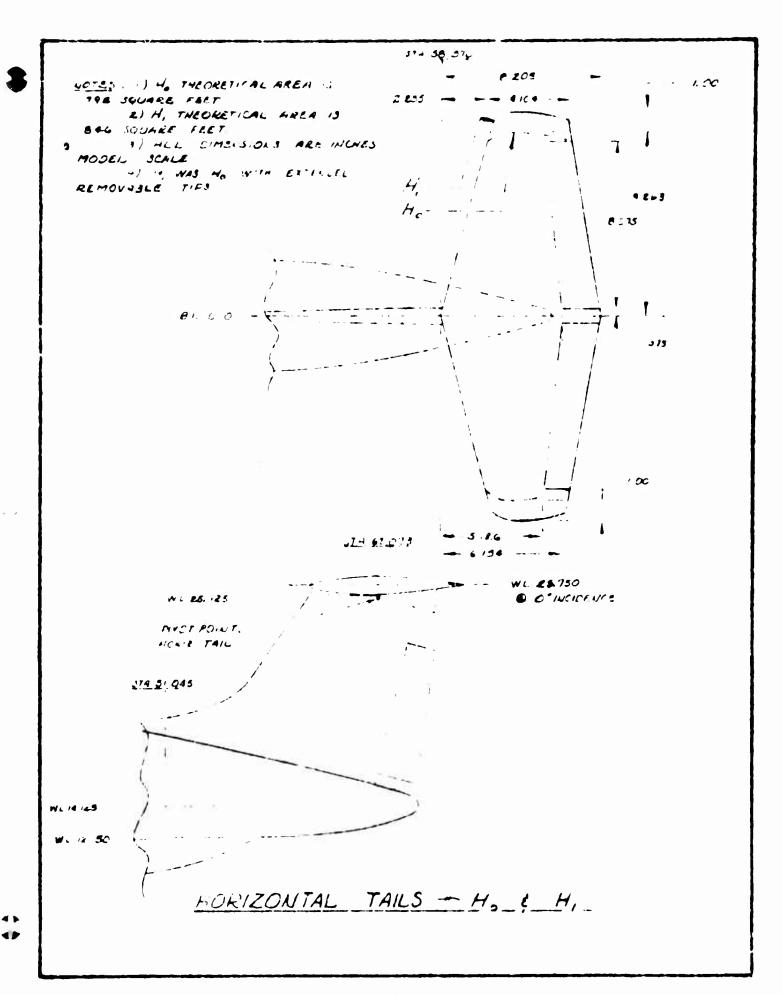


Figure 4.12

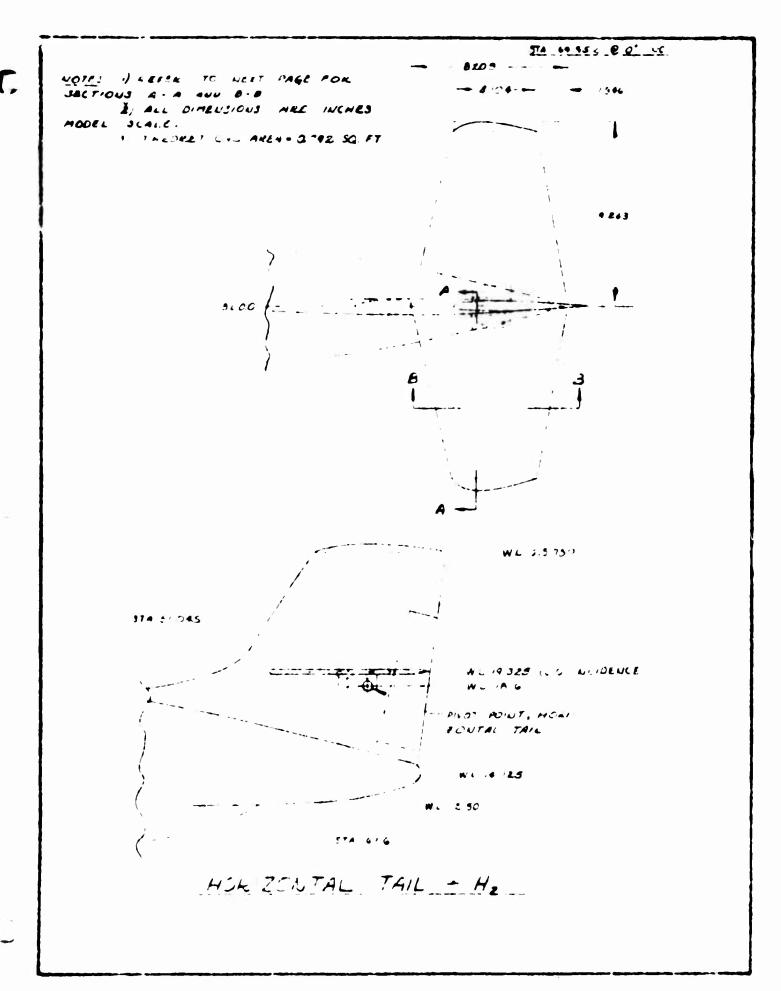
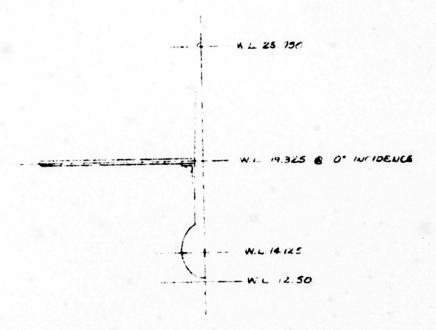


Figure 4.13



SECTION A . A

NOTES: .) PLANFORM VIEW ALLD SIDE VIEW OF THIS CONFIGURATION ARE ON THE PRECEDING PAGE.

2) ALL DIMENSIONS ARE INCHES MODEL SCALE.



SECTION B . B

HORIZOUTAL TAIL + Hz (CONTO)

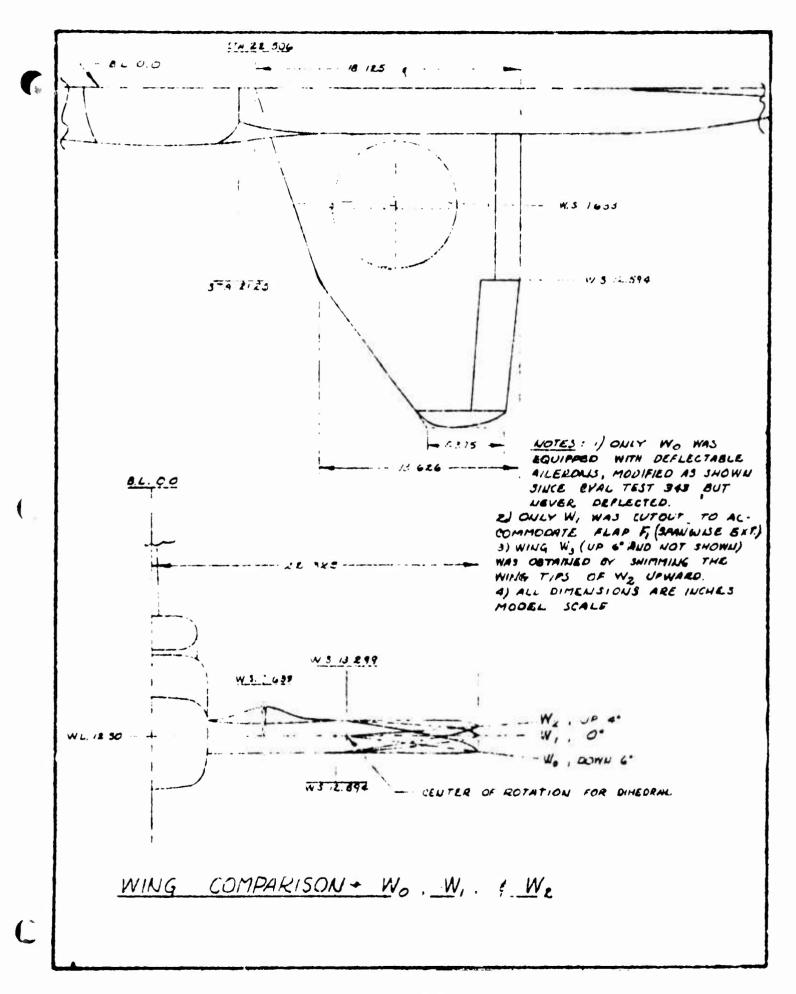


Figure 4.14

MODEL MOMENT REFERENCE CENTER 7

W.L. 14. CO

175

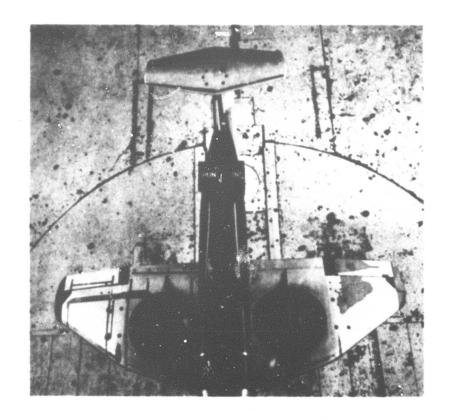
TRUNUION

STA 30.75

MAG. 14.1.5

MOTE ALL DIMENLIONS ARE INCHES MOCKE SCALE.

MOMERIT REFERENCE DIAGRAM
RYAN MODEL 145 (VERTIFAN)
% SCALE CONVENTIONAL MODEL



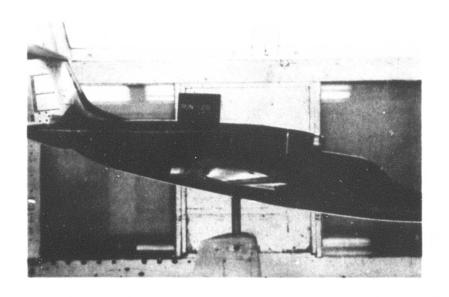
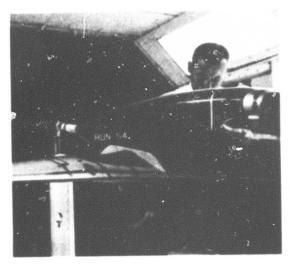
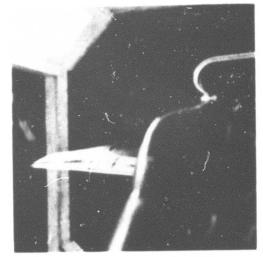


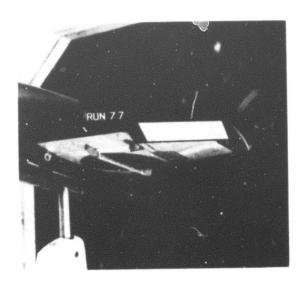
Figure 4.16 Basic Model with Empennage



Wing Upper Surface With "Bump" and Strut



Depressed "Bump" Of Configuration  $\mathbf{S}_2$ 

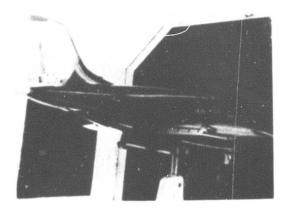


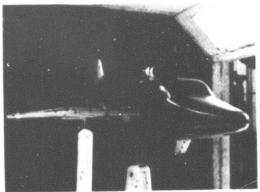
Wing Lower Surface With Retracted Louvers and Strut



Depressed Louvers Of Configurations  $\mathbf{S_1}$  and  $\mathbf{S_2}$ 

Figure 4.17 Wing Fan Covers, Louvers and Struts

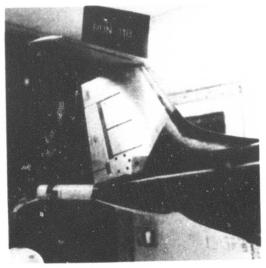




Model With Landing Gear and Without Horizontal Tail

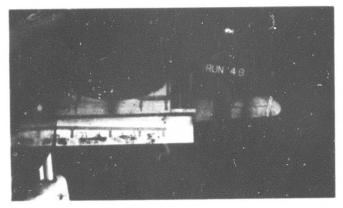


Note the Exposed Mounting Plate

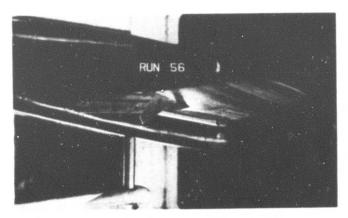


Note the Wax Fairing of  $V_{1}$ 

Figure 4.18 Landing Gear and Empennage Details



Spanwise Extended Flap  $F_1$ 

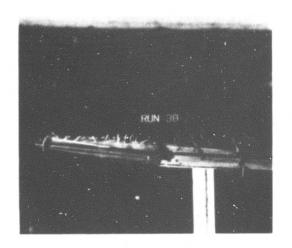


Flap With Outboard End Plate  $\mathbf{F}_2$ 

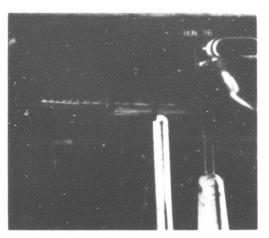


.25-Inch Chordwise Extended Flap  ${\rm F}_4$ 

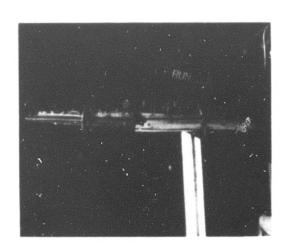
Figure 4.19 Modified Flaps  $F_1$ ,  $F_2$  and  $F_4$ 

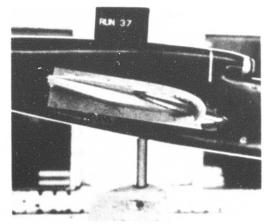


Fence  $f_1$ : 94.5% Wing Semispan



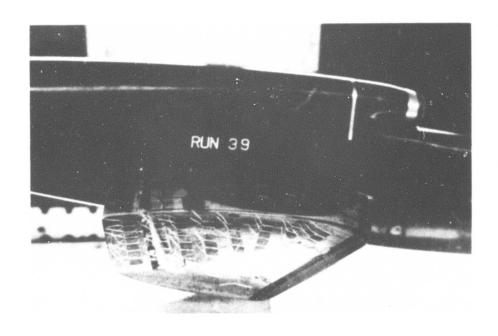
Fence f<sub>3</sub>: 56.75% Wing Semispan





Fence  $f_2$ : 73% Wing Semispan

Figure 4.20 Wing Fences  $f_1$ ,  $f_2$ , and  $f_3$ 



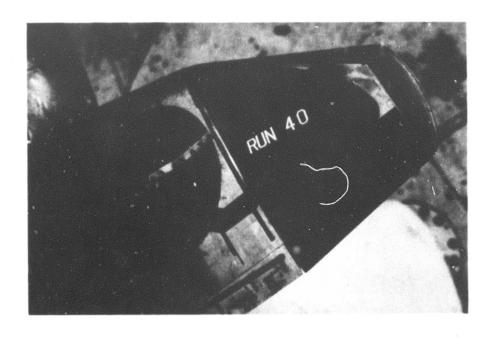
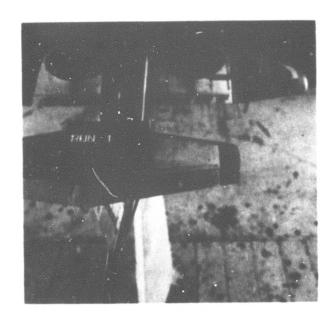
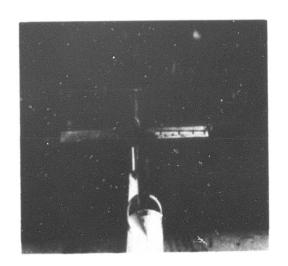


Figure 4.21 Wing with Vortex Generators  $\boldsymbol{g}_0$  and  $\boldsymbol{g}_1$ 





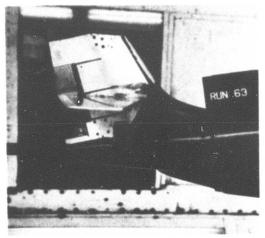


Figure 4.22 Horizontal Tails  ${\rm H_1}$  and  ${\rm H_2}$ 

## 4.4 DATA REDUCTION REFERENCE DIMENSIONS

## External Balance

S Wing Area: 4.068 square feet

Wing Mean Aerodynamic Chord: 14.115 inches

b Wing Span: 44.750 inches

AR Aspect Ratio: 3.42

## Hinge Moments

A<sub>f</sub> Flap Area (one only): 0.1975 square feet

c, Flap Root Mean Square Chord: 2,965 inches

A Aileron Area Aft of Hinge Line (A configuration) (one only): 0.160 square feet

Aileron Root Mean Square Chord Aft of Hinge Line (A<sub>0</sub> configuration): 2.353 inches

A Elevator Area Aft of hinge Line (one only: 0.0951 square feet

Elevator Root Mean Square Chord Aft of Hinge Line:
1.661 inches

Rudder Area Aft of Hinge Line: 0.087 square feet

Rudder Root Mean Square Chord Aft of Hinge Line: 1.869 inches

## 4.5 REFERENCES

- 1. Liggett, H. G.: Low Speed Wind Tunnel Tests of a 1/8 Scale
  Conventional Model of the Ryan Vertifan Airplane to Determine
  Longitudinal and Direction of Characteristics, Duct Internal
  Flow, Wing and Fuselage Pressures, and Control Surface Cavity
  Pressures and Hinge Moments, General Dynamics/Convair
  Report CVAL 343 (Two Volumes), April 12, 1963.
- 2. Liggett, H. G.: Additional Low Speed Wind Tunnel Tests of the 1/8 Scale Ryan Model 143 (Vertifan) to Determine the Aerodynamic Effects of Wing Dihedral, Flap Modifications, Wing Fences, Vortex Generators and Horizontal Tail Variations, General Dynamics/Convair Report CVAL 343A, June 1, 1963.